Current Fishery Statistics No. 9300

Fisheries of the United States, 1993

May 1994





U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration National Marine Fisheries Service Current Fishery Statistics No. 9300

Fisheries of the United States, 1993

Prepared by: Fisheries Statistics Division

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> Silver Spring, MD May 1994



U.S. DEPARTMENT OF COMMERCE,

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PREFACE

FISHERIES OF THE UNITED STATES. 1993

This publication is a preliminary report for 1993 on commercial and recreational fisheries of the United States with catches in both the U.S. and foreign Exclusive Economic Zones (EEZ). This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS Fisheries Statistics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, and U.S. Department of Agriculture, Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial and recreational landings, employment, prices, and production of processed products are preliminary for 1993. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics Division of NMFS takes this opportunity to thank members of states, industry, and foreign nations who provided the data that made this publication possible.

Program leaders of the field offices were: Gregory Power (Acting), New England, Middle Atlantic, and Chesapeake; Tony Frank, Great Lakes Fisheries Commission, Great Lakes States; Kenneth Harris, Guy Davenport, Lee Usie, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and Patsy Bearden, Alaska.

DEFINITIONS - (See Glossary)

As in past issues of this publication, the units of quantity and value are defined as follows: landings are shown in round weight (except mollusks which are in meat weight), unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic commercial catch is exvessel (in the Review Section on important species actual and deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator); the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (Tariff Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or questions to:
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<u>U.S. LANDINGS</u>. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were a record 10.5 billion pounds or 4.7 million metric tons valued at \$3.5 billion in 1993—an increase of 829.6 million pounds (up 9 percent) but a decrease of \$206.5 million (down 6 percent) compared with 1992. The 1993 landings showed an increase in major species such as Pacific hake, Alaska pollock, salmon, clams, and squid when compared with 1992. The 1993 average exvessel price per pound paid to fishermen was 33 cents compared to the 38 cents they received in 1992. Finfish accounted for 86 percent of total landings, but only 54 percent of the total value.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred to internal water processing vessels (IWPs) were an additional 476.8 million pounds (216,000 metric tons) valued at \$195.4 million. This was a 20 percent, or 120.9 million pounds (54,800 metric ton) decrease in quantity and a \$10.2 million (5 percent) decrease in value compared with 1992. Most of these landings consisted of tuna landed at canneries in Puerto Rico, American Samoa and other foreign ports and IWP transfers of sea herring, and menhaden.

Edible fish and shellfish landings in the 50 states were 8.2 billion pounds (3.7 million metric tons) in 1993--an increase of 596 million pounds (270,300 metric tons) compared with 1992.

Landings for reduction and other industrial purposes were 2.3 billion pounds (1.0 million metric tons) in 1993—an increase of 12 percent compared with 1992.

The 1993 U.S. marine recreational finfish catch (including fish caught and released alive) on the Atlantic, Gulf, and Pacific coasts was an estimated 293.0 million fish taken on an estimated 53.4 million fishing trips. The harvest (fish kept) was estimated at 146.0 million fish weighing 194.6 million pounds.

WORLD LANDINGS. In 1992, the most recent year for which data are available, world commercial

fishery landings were 98.1 million metric tons—an increase of 1.1 million metric tons (up 1 percent) compared with 1991.

China was the leading nation with 15 percent of the total catch; Japan, second with 9 percent; Peru, third with 7.0 percent; Chile, fourth with 6.6 percent; Russia, fifth with 5.7; and United States, sixth with 5.7 percent.

PRICES. Exvessel price indices declined for 14 of the 32 species groups being tracked, and increased or remained constant for the remaining 18 species groups. The sockeye salmon price index had the largest decrease (417 percent) while the bluefin tuna price index had the largest increase (617 percent). The 1993 annual exvessel price index for edible fish and shellfish decreased 5 percent from 1992. The annual index for industrial fish remained the same.

PROCESSED PRODUCTS. The estimated value of the 1993 domestic production of edible and nonedible fishery products was \$8.4 billion, \$192.8 million (2 percent) less than the \$8.6 billion in 1992. The value of edible products was \$8.0 billion--a decrease of \$224.1 million (3 percent) compared with 1992. The value of industrial products was \$481.6 million in 1993--an increase of \$31.3 million (7 percent) compared with 1992.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was \$10.6 billion in 1993—an increase of \$751.1 million (8 percent) compared with 1992. Imports of edible fishery products (product weight) were 2.9 billion pounds (1.3 million metric tons) valued at \$5.8 billion in 1993—an increase of only 23,200 pounds (less than 1 percent), and \$142.9 million (3 percent) compared with 1992. Imports of nonedible (i.e., industrial) products were \$4.8 billion—an increase of \$608.3 million (15 percent) compared with 1992.

Total export value of edible and nonedible fishery products of domestic origin was \$6.9 billion in 1993—a decrease of \$194.4 million (3 percent) compared with 1992. United States firms exported

2.0 billion pounds (900,800 metric tons) of edible products valued at \$3.1 billion—a decrease of 101.6 million pounds (46,100 metric tons) and \$388.9 million compared with 1992. Exports of nonedible products were valued at a record \$3.8 billion, \$194.5 million more than 1992.

SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was a record 13.8 billion pounds (6.3 million metric tons) in 1993-an increase of 579.0 million pounds (4 percent) compared with 1992. The change reflects an increase of 9 percent in domestic commercial landings. The supply of industrial fishery products was 6.5 billion pounds (3.0 million metric tons) in 1993--an increase of 3.6 billion pounds (124 percent) compared with 1992. The change reflects an increase of 3.4 billion pounds (404 percent) in imports.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 15.0 pounds of edible meat per person in 1993, up 0.2 pound from the 1992 per capita consumption of 14.8 pounds.

CONSUMER EXPENDITURES. U.S. consumers spent an estimated \$38.1 billion for fishery products in 1993. The 1993 total includes \$25.7 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); \$12.0 billion in retail sales for home consumption; and \$442.2 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed \$19.8 billion (in value added) to the U.S. Gross National Product.



OTHER IMPORTANT FACTS

Alaska pollock, with landings of 3.3 billion pounds (1.5 million metric tons), was the most important species in quantity and fourth in value for 1993, accounting for 31 percent of the commercial fishery landings in the United States.

Menhaden was the second most important species in quantity, but was fifth lowest in value.

Salmon were third in quantity and second in value.

Flounders were fifth in quantity and eighth in value.

Crabs were fourth in quantity and first in value.

Cods were sixth in quantity and fifth in value.

Shrimp were third in value and seventh in quantity.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 432.6 million pounds. Groupers, halibut, menhaden, snappers, and miscellaneous species also were landed at ports outside the United States. In

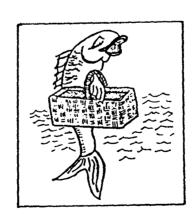
addition, catches of mackerel, sea herring, and menhaden were transferred to internal water processing vessels in U.S. waters.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Kodiak, Alaska; Empire-Venice, Louisiana; Cameron, Louisiana; and Intercoastal City, Louisiana.

Dutch Harbor-Unalaska was also the leading U.S. port in terms of value, followed by: New Bedford, Massachusetts; Kodiak, Alaska; Empire-Venice, Alaska; and Portland, Maine.

Alaska led all states in volume with landings of 5.9 billion pounds, followed by Louisiana, 1.3 billion; Virginia, 728.3 million; Washington, 362.3 million; and California, 281.5 million pounds.

Alaska led all states in value of landings with \$1.4 billion, followed by Louisiana, \$261.8 million; Massachusetts, \$232.1 million; Florida, \$208.8 million; and Maine \$181.1 million.

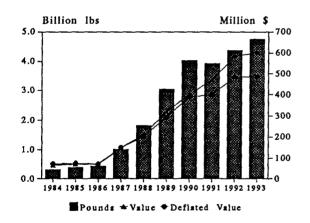


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ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 4.5 billion pounds valued at \$595.0 million--an increase of 4 percent in quantity and 2 percent in value compared with 1992.

Landings of Alaska pollock increased 10 percent to 3.3 billion pounds, and 30 percent higher than the 1988-1992 5-year average. Landings of Pacific cod were 482.8 million pounds -- a decrease of 12 percent from 550.5 million pounds in 1992. Pacific hake (whiting) landings were 310.2 million pounds (up 151 percent) valued at \$9.3 million (up 59 percent from 1992). Landings of rockfishes were 120.7 million pounds (4 percent less than 1992) valued at \$45.7 million. The 1993 rockfish landings were 1 percent lower than the 5-year average.

Trend in Commercial Landings, 1984-1993 Alaska Pollock, Other Pacific Trawl Fish

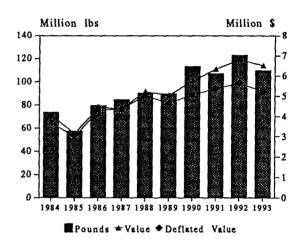


ANCHOVIES. U.S. landings of anchovies were 9.8 million pounds--a decrease of 3.9 million pounds (28 percent) compared with 1992. Ninety-two percent of all landings were used for bait.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 63.1 million pounds (round weight) valued at \$62.4 million--a decrease of 5.5 million pounds (8 percent), but an increase of \$8.6 million (16 percent) compared with 1992. The Pacific fishery accounted for all but 42,000 pounds of the 1993 total halibut catch. The average exvessel price per pound in 1993 was 99 cents compared with 78 cents in 1992.

HERRING. SEA. U.S. commercial landings of sea herring were 216.2 million pounds valued at \$25.2 million-a decrease of 65.8 million pounds (23 percent) and \$17.5 million (41 percent) compared with 1992. Landings of Atlantic sea herring were 109.6 million pounds valued at \$6.5 million-a decrease of 13.3 million pounds (11 percent) and \$310,000 (5 percent) compared with 1992.

Trend in Commercial Landings, 1984-1993 Atlantic Sea Herring



Landings of Pacific sea herring were 106.6 million pounds valued at \$18.7 million--a decrease of 52.5 million pounds (33 percent) and \$17.2 million (48 percent) compared with 1992. Alaska landings accounted for 91 percent of the Pacific coast with 96.5 million pounds valued at \$14.1 million--a decrease of 48.7 million pounds (34 percent) and \$12.9 million (48 percent) compared with 1992.

JACK MACKEREL. California accounted for 84 percent and Oregon for 16 percent of the U.S. landings of jack mackerel in 1993. Total landings were 3.9 million pounds valued at \$232,000--an increase of 1.3 million pounds (50 percent), but a decrease of \$13,000 (5 percent) compared with 1992. The 1993 average exvessel price per pound was 6 cents compared to 9 cents in 1992.

MACKEREL. ATLANTIC. U.S. landings of Atlantic mackerel were 10.3 million pounds valued at \$1.3 million-a decrease of 15.7 million pounds (60 percent) and \$2.4 million (65 percent) compared with

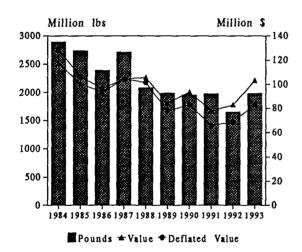
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1992. Rhode Island with 5.7 million pounds and New Jersey with 2.8 million pounds had a total of 82 percent of the total landings. The average exvessel price per pound in 1993 was 13 cents, down 14 cents from 1992.

MACKEREL CHUB. Landings of chub mackerel were 24.1 million pounds valued at \$1.4 million--a decrease of 17.8 million pounds (43 percent) and \$2.8 million (67 percent) compared with 1993. The average exvessel price per pound decreased from 10 cents in 1992 to 6 cents in 1993.

MENHADEN. The U.S. menhaden landings were 2.0 billion pounds valued at \$103.3 million--an increase of 339.0 million pounds (21 percent) and \$20.3 million (24 percent) compared with 1992. Landings

Trend in Commercial Landings, 1984-1993 Atlantic and Gulf Menhaden

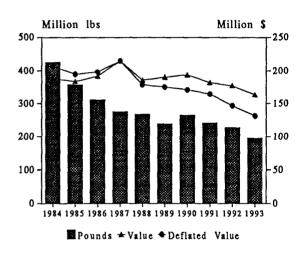


increased by 76.7 million pounds (11 percent) in the Atlantic states and 262.3 million pounds (27 percent) in the Gulf states compared with 1992. Landings along the Atlantic coast were 766.8 million pounds valued at \$44.1 million. Gulf region landings were 1.2 billion pounds valued at \$59.2 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and animal food.

NORTHATLANTIC TRAWL FISH. Landings of butterfish, Atlantic cod, cusk, flounders (blackback, fluke, yellowtail and other), haddock, red and white hake,

ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 192.6 million pounds valued at \$155.9 million--a decrease of 27.4 million pounds (12 percent) and \$11.8 million (7 percent) compared with 1992. Of these species, flounder led in total value in the North Atlantic accounting for 27 percent of the total; followed by cod, 26 percent; and whiting, 19 percent.

Trend in Commercial Landings, 1984-1993 North Atlantic Trawl Fish



The 1993 landings of Atlantic cod were 50.5 million pounds valued at \$45.0 million--a decrease of 10.8 million pounds (18 percent) and \$7.1 million (14 percent) compared with 1992. The exvessel price per pound was 89 cents in 1993 compared with 85 cents per pound in 1992.

Landings of yellowtail flounder were 8.0 million pounds--a decrease of 4.5 million pounds (36 percent) from 1992, and about 47 percent of its 5-year average.

Haddock landings decreased to 1.9 million pounds (62 percent) and \$2.7 million (52 percent) compared to 1992.

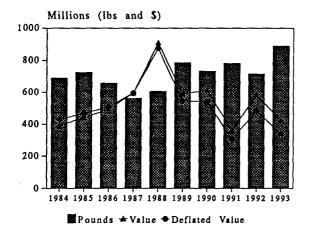
North Atlantic pollock landings were 12.5 million pounds valued at \$8.4 million--a decrease of 3.3 million pounds (21 percent) and \$2.2 million (21 percent) compared with 1992.

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PACIFIC SALMON. U.S. commercial landings of salmon were 889.0 million pounds valued at \$423.5 million--an increase of 172.3 million pounds (24 percent), but a decrease of \$159.3 million (27 percent) compared with 1992. Alaska and Washington ac-

Trend in Commercial Landings, 1984-1993
Pacific Salmon



counted for 95 percent and 4 percent of the total landings, respectively. Red salmon landings were 394.9 million pounds valued at \$281.5 million--an increase of 48.4 million pounds (14 percent), but a decrease of \$139.8 million (33 percent) compared with 1992. King salmon landings increased to 18.6 million pounds--up 868,000 pounds (5 percent) from 1992. Pinksalmon landings were 343.1 million pounds--an increase of 139.4 million pounds (68 percent); chum salmon, 90.4 million pounds were unchanged; and silver salmon, 41.0 million pounds--a decrease of 16.3 million pounds (28 percent) compared with 1992.

Alaska landings were 846.9 million pounds valued at \$391.1 million—an increase of 159.7 million pounds (23 percent), but a decrease of \$153.4 million (28 percent) compared with 1992. The distribution of Alaska salmon landings by species in 1993 was: sockeye, 381.1 million pounds (45 percent); pink, 335.0 million pounds (39 percent); chum, 80.7 million pounds (10 percent), coho, 38.5 million pounds (5 percent), and chinook, 11.6 million pounds (1 percent). The exvessel price per pound for all

species in Alaska was 46 cents in 1993-- a decrease of 33 cents from 1992.

Washington salmon landings were 36.4 million pounds valued at \$24.1 million--an increase of 12.0 million pounds (49 percent), but a decrease of \$6.1 million (20 percent) compared with 1992. The biennial fishery for pink salmon went from 2,000 pounds in 1992 to 8.2 million pounds in 1993. Washington landings of red salmon were 13.9 million pounds--an increase of 10.4 million pounds (up 302 percent); followed by chum, 9.7 million pounds (down 33 percent); silver, 1.7 million pounds (down 38 percent); and chinook, 3.0 million pounds (down 20 percent) compared with 1992. The average exvessel price per pound for all species in Washington decreased from \$1.24 in 1992 to \$0.66 in 1993.

Oregon salmon landings were 1.7 million pounds valued at \$2.4 million--a decrease of 428,000 pounds (20 percent) and \$1.2 million (33 percent) compared with 1992. Landings of chinook salmon were 1.5 million pounds (down 11 percent); silver, 208,000 pounds (down 53 percent); and chum, less than 1,000 pounds down from the 3,000 pounds reported in 1992. The average exvessel price per pound for all species in Oregon decreased from \$1.66 in 1992 to \$1.38 in 1993.

California salmon landings were 2.6 million pounds valued at \$5.8 million-anincrease of 940,000 pounds (58 percent) and \$1.3 million (30 percent) compared with 1992. Chinook salmon was the only species landed in 1993. No landings of silver salmon were reported in 1993, though 11,000 pounds valued at \$18,000 were reported in 1992. The average exvessel price per pound paid to fishermen in 1993 was \$2.25 compared with \$2.72 in 1992.

SABLEFISH. U.S. commercial landings of sablefish were 77.5 million pounds valued at \$83.9 million--an increase of 2.0 million pounds (3 percent) and \$4.2 million (5 percent) compared with 1992. Landings increased in Alaska to 58.9 million pounds, an increase of 9 percent compared with 1992. Landings decreased in Washington to 4.5 million pounds (2 percent), but increased in value to \$6.1 million (up 31 percent). The 1993 Oregon catch was 8.7 million

IMPORTANT SPECIES

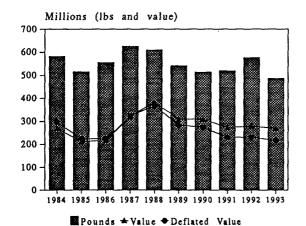
pounds (down 1 percent) and \$4.8 million (down 17 percent) compared with 1992. California landings of 5.4 million pounds and \$2.3 million represent a decline of 33 percent in quantity and 47 percent in value from 1992. The average exvessel price per pound in 1993 was \$1.08 compared with \$1.06 in 1992.

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 488.0 million pounds valued at \$269.9 million--a decrease of 89.4 million pounds (15 percent) and \$10.0 million (4 percent) compared with 1992. The average exvessel price per pound of all species of tuna in 1993 was 55 cents compared with 48 cents in 1992.

Bigeye landings in 1993 were 11.3 million pounds-an increase of 6.1 million pounds (120 percent) compared with 1992. The average exvessel price per pound was \$2.02 in 1993 compared with \$3.83 in 1992.

Skipjack landings were 348.9 million poundsa decrease of 31.7 million pounds (8 percent) compared with 1992. The average exvessel price per pound was 41 cents in 1993, compared to 35 cents in 1992.

Trend in Commercial Landings, 1984-1993 Tuna (Includes U.S. and Foreign Ports)



Yellowfin landings were 105.1 million pounds-a decrease of 61.4 million pounds (63 percent) compared with 1992. The average exvessel price per pound was 64 cents in 1993 compared with 55 cents in 1992.

Bluefin landings were 3.5 million pounds--a decrease of 973,000 pounds (22 percent) compared with 1993. The average exvessel price per pound in 1993 was \$6.03 compared with \$3.76 in 1992.

CLAMS. Landings of all species yielded 147.8 million pounds of meats valued at \$138.0 million--an increase of 5.3 million pounds (4 percent) and \$10.7 million (8 percent) compared with 1992. The average exvessel price per pound decreased to 93 cents in 1993 from 89 cents in 1992.

Surf clams yielded 73.9 million pounds of meats valued at \$33.9 million--a decrease of 671,000 pounds (1 percent) but an increase of \$1.4 million (4 percent) compared with 1992. New Jersey was the leading State with 48.0 million pounds (down 9 percent), followed by New York, 16.1 million pounds (up 32 percent); and Maryland, 6.5 million pounds (up 12 percent) compared with 1992. The average exvessel price per pound of meats was 46 cents in 1993, up 3 cents from 1992.

The ocean quahog fishery produced 51.7 million pounds of meats valued at \$20.6 million--an increase of 1.2 million pounds (2 percent) and \$1.0 million (5 percent) compared with 1992. New Jersey was the leading producer with 41.5 million pounds of meats accounting for 80 percent of the total ocean quahog landings. The value for New Jersey in 1993 was \$15.4 million--an increase of \$1.6 million (12 percent) compared with 1992. The average exvessel price per pound of meats was 40 cents in 1993, compared with 39 cents in 1992.

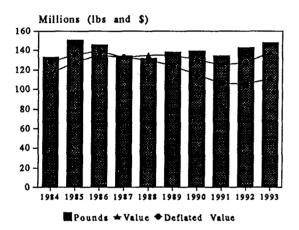
The hard clam fishery produced 15.6 million pounds of meats valued at \$59.1 million--an increase of 3.3 million pounds (26 percent) and \$3.5 million (6 percent) compared with 1992. Landings in the New England region were 4.3 million pounds of meats (down 12 percent); Middle Atlantic region,

IMPORTANT SPECIES

3.9 million pounds (up 12 percent); Chesapeake region, 1.3 million pounds (up 2 percent); and the South Atlantic region, 2.3 million pounds (up 33 percent). The average exvessel price per pound of meats decreased from \$4.50 in 1992 to \$3.78 in 1993.

Soft clams yielded 4.5 million pounds of meats valued at \$19.0 million--an increase of 535,000 pounds (14 percent) and \$3.0 million (19 percent) compared with 1992. Maine was the leading state

Trend in Commercial Landings, 1984-1993 Clams



with 2.3 million pounds of meats (up 2 percent) followed by Masschusetts with 1.2 million pounds (up 7 percent). The average exvessel price per pound of meats was \$4.25 in 1993, compared with \$4.05 in 1992.

CRABS. Landings of all species of crabs were 604.4 million pounds valued at \$510.5 million--a decrease of 19.9 million pounds (3 percent) but an increase of \$39.2 million (8 percent) compared with 1992.

Hard blue crab landings were 249.3 million pounds valued at \$126.6 million--an increase of 56.6 million pounds (29 percent) and \$37.6 million (42 percent) compared with 1992. Maryland landed 24 percent, Virginia 21 percent and Louisiana 18 percent of the total U.S. landings. Hard blue crab landings in the Chesapeake region were 112.1 million pounds--an increase of 114 percent; Gulf region, 63.3 million pounds, decreased 4 percent; and the South Atlantic region with 60.2 million

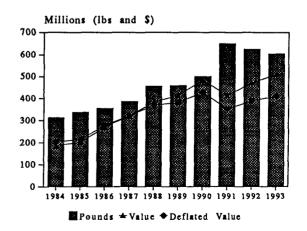
pounds, decreased 5 percent. The Middle Atlantic region with 13.7 million pounds valued at \$7.2 million showed an increase of 2.9 million pounds (27 percent) and \$2.0 million (38 percent) compared with 1992. The average exvessel price per pound of hard blue crabs was 51 cents in 1993, five cents more than 1992.

Dungeness crab landings were 55.5 million pounds valued at \$50.0 million--an increase of 13.8 million pounds (33 percent) and \$1.4 million (3 percent) compared with 1992. Washington landings of 18.1 million pounds (up 18 percent) led all states with 33 percent of the total landings. Alaska landings were 17.1 million pounds, up 177 percent compared with 1992. Oregon landings were 10.5 million pounds (down 12 percent) and California landings were 9.8 million pounds (up 18 percent) compared with 1992. The average exvessel price per pound was 90 cents in 1993 compared with \$1.17 in 1992.

U.S. landings of king crab were 24.7 million pounds valued at \$93.2 million--an increase of 5.7 million pounds (30 percent) compared with 1992. The average exvessel price per pound in 1993 was \$3.77 compared with \$4.15 in 1992.

Snow (tanner) crab landings were 255.7 million pounds valued at \$210.6 million--a decrease of 94.3 million pounds (27 percent) and \$13.2 million (6 percent) compared with 1992. The average exvessel price per pound was 82 cents in 1993, up from 63 cents in 1992.

Trend in Commercial Landings, 1984-1993 Crabs



IMPORTANT SPECIES

LOBSTER. AMERICAN. American lobster landings were 56.5 million pounds valued at \$151.7 millionan increase of 672,000 pounds (1 percent), but a decrease of \$9.2 million (6 percent) compared with 1992. Maine led in landings for the twelfth consecutive year with 31.1 million pounds valued at \$73.9 million—an increase of 4.3 million pounds (16 percent) compared with 1992. Massachusetts, the second leading producer, had landings of 14.0 million pounds valued at \$41.8 million—a decrease of 1.1 million pounds (8 percent) compared with 1992. Together, Maine and Massachusetts produced 80 percent of the total national landings. The average exvessel price per pound was \$2.69 in 1993 compared with \$2.88 in 1992.

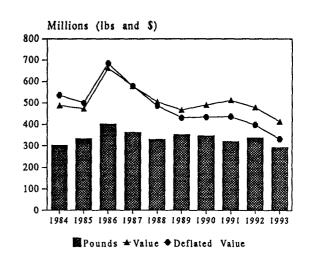
LOBSTERS. SPINY. U.S. landings of spiny lobster were 6.1 million pounds valued at \$21.0 million--an increase of 1.2 million pounds (25 percent) and an increase of \$833,000 (4 percent) compared with 1992. Florida, with landings of 5.6 million pounds valued at \$18.1 million, accounted for 92 percent of the total catch and 87 percent of the value. This was an increase of 1.7 million pounds (42 percent) and \$3.5 million (24 percent) compared with 1992. Overall the average exvessel price per pound was \$3.45 in 1993 compared with \$4.13 in 1992.

OYSTERS. U.S. oyster landings yielded 33.6 million pounds of meats valued at \$86.7 million--a decrease of 2.6 million pounds (7 percent) and \$27.8 million (24 percent) compared with 1992. The Gulf region led in production with 20.0 million pounds of meats, 41 percent of the national total; followed by the Pacific region (principally Washington with 73 percent of the region's total volume) with 6.4 million pounds (19 percent), and the New England region, with 5.1 million pounds (15 percent). The average exvessel price per pound of meats was \$2.58 in 1993 compared with \$3.17 in 1992.

SHRIMP. U.S. landings of shrimp were 292.9 million pounds valued at \$412.9 million--a decrease of 44.9 million pounds (13 percent), and \$67.1 million (14 percent) compared with 1992. Shrimp landings increased in the South Atlantic (up 7 percent) and New England (33 percent), but decreased in the Gulf (down 7 percent), and the Pacific (down 34 percent) when compared with 1992. The average

exvessel price per pound of shrimp decreased to \$1.41 in 1993 compared with \$1.42 in 1992. Gulf region landings were the nation's largest with 206.4 million pounds compared with 222.1 million pounds in 1992. Louisiana led all Gulf states with 87.8 million pounds (down 10 percent), followed by Texas, 77.6 million pounds (down 9 percent); Florida (West Coast) 16.0 million pounds (up 1 percent); Alabama 14.4 million pounds (up 7 percent); and Mississippi, 10.5 million pounds (up 4 percent). In the Pacific region Oregon was the third leading State nationwide with landings of 26.9 million pounds (down 44 percent). Washington landings of 16.0 million pounds increased 28 percent and California landings of 9.1 million pounds declined 55 percent compared with 1992.

Trend in Commercial Landings, 1984-1993 Shrimp



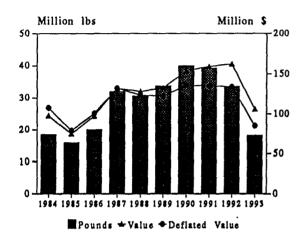
SCALLOPS. U.S. landings of bay and sea scallops totaled 18.6 million pounds of meats valued at \$108.9 million--a decrease of 15.2 million pounds (45 percent) and \$55.4 million (66 percent) compared with 1992. The average exvessel price per pound of meats increased from \$4.85 in 1992 to \$5.84 in 1993.

Bay scallop landings were 522,000 pounds of meats valued at \$3.3 million--an increase of 166,000 pounds (47 percent) and \$1.2 million (57 percent) compared with 1992. Massachusetts was the leading

IMPORTANT SPECIES

state with 350,000 pounds of meats, 67 percent of the national total. The average exvessel price per pound of meats was \$6.24 in 1993 compared with \$5.81 in 1992.

Trend in Commercial Landings, 1984-1993 Atlantic Sea Scallops



Sea scallop landings were 18.1 million pounds of meats valued at \$105.6 million--a decrease of 15.4 million pounds (46 percent) and \$56.6 million (35

percent) compared with 1992. Massachusetts was the leading state in landings of sea scallops with 8.9 million pounds of meats, 49 percent of the national total. The average exvessel price per pound of meats in 1993 was \$5.83 compared with \$4.84 in 1992.

Landings of calico scallops cannot be reported due to federal data confidentiality restrictions.

SQUID. U.S. commercial landings of squid were 162.4 million pounds valued at \$46.4 million--an increase of 50.0 million pounds (44 percent) and \$9.8 million (27 percent) compared with 1992. California was the leading state with 71.1 million pounds, 44 percent of the national total. The Pacific region landings were 71.6 million pounds (up 135 percent), followed by the New England region, 46.9 million pounds (up 2 percent), the Middle Atlantic region, 42.7 million pounds (up 20 percent), and the Chesapeake Region, 753,000 pounds (up 30 percent) compared with 1992. The average exvessel price per pound for squid was 29 cents in 1993, compared with 33 cents in 1992.

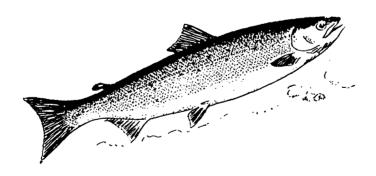
PER CAPITA CONSUMPTION

The NMFS calculation of per capita consumption is based on a "disappearance" model. The total U.S. supply of imports and landings is converted to edible weight and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 15.0 pounds (edible meat) in 1993. This total was 0.2 pounds more than the 14.8 pounds consumed in 1992. Per capita consumption of fresh and frozen products was 10.2 pounds, an increase of 0.3 pounds

from 1992. Fresh and frozen finfish accounted for 6.3 pounds while fresh and frozen shellfish consumption was 3.9 pounds per capita. The fresh and frozen finfish includes approximately 0.9 pounds of farm raised catfish. Consumption of canned fishery products was 4.5 pounds per capita in 1993, a decrease of 0.1 pounds from 1992.

Per Capita Use. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1993 was 77.9 pounds, up 14.9 pounds compared with 1992.



PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1993 the U.S. steaks, including blocks, was 409.4 million pounds—39.3 million pounds less than the 448.7 million pounds in 1992. These fillets and steaks were valued at \$829.1 million—\$82.9 million less than 1992. Alaska pollock fillets and blocks led all species with 153.5 million pounds—37 percent of the total. Production of groundfish fillets and steaks (see Glossary Section—Groundfish) was 226.8 million pounds compared with 252.4 million pounds in 1992.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 272.7 million pounds valued at \$379.5 million compared with the 1992 production of 252.6 million pounds valued at \$352.2 million-an increase of 20.1 million pounds and \$27.3 million.

The total production of fish sticks amounted to 67.3 million pounds valued at \$67.3 million-an increase of 9.0 million pounds and \$11.3 million compared with 1992. The total production of fish portions amounted to 205.4

million pounds valued at \$312.1 million--an increase of 11.1 million pounds and \$15.9 million compared with 1992.

BREADED SHRIMP. The production of breaded shrimp in 1993 was 111.3 million pounds valued at \$317.0 million, compared with the 1992 production of 121.8 million pounds valued at \$348.6 million.

FROZEN FISHERY TRADE. In 1993, stocks of frozen fishery products in cold storage were at a low of 316.5 million pounds on June 30 and a high of 398.4 million pounds on November 30. Cold storage holdings of shrimp products were at a high of 55.1 million pounds on December 31 and a low of 37.6 million pounds on April 30. Holdings of saltwater fillets and steaks reached a high of 100.4 million pounds on November 30 and were at a low of 68.1 million pounds on February 28. Holdings of blocks and slabs were at a high of 55.0 million pounds on January 31 and a low of 34.5 million pounds on December 31. holdings reached a high of 36.2 million pounds on May 31 and were at a low of 23.7 million pounds on December 31.



PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 57.8 million standard cases (1.6 billion pounds) valued at \$1.6 billion—an increase of 2.0 million standard cases (71.3 million pounds), and \$48.8 million compared with the 1992 pack. The 1993 pack included 44.6 million cases (982.4 million pounds) valued at \$1.4 billion for human consumption and 13.2 million standard cases (632.7 million pounds) valued at \$255.6 million for bait and animal food.

CANNED SALMON. The 1993 U.S. pack of natural Pacific salmon was 4.5 million standard cases (198.5 million pounds) valued at \$307.5 million, compared with 3.4 million standard cases (149.5 million pounds) valued at \$292.8 million packed in 1992. Alaskan plants accounted for 95 percent in quantity and 95 percent in value of the salmon pack.

CANNED SARDINES. The pack of Maine sardines (small herring) was 613,415 standard cases (14.4 million pounds) valued at \$25.1 million, a decrease of 131,773 standard cases (3.1 million pounds) but an increase of \$546,000 compared with 1992. There were 311,663 standard cases (7.3 million pounds) of herring valued at \$12.9 million packed in 1993 – 109,064 standard cases (2.6 million pounds) and \$6.1 million more than the 1992 pack.

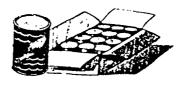
<u>CANNED TUNA</u>. The U.S. pack of tuna was 33.7 million standard cases (618.7 million pounds) valued at \$904.0 million—an increase of 531,300

standard cases (9.8 million pounds) in quantity and \$16.3 million in value compared with the 1992 pack. The pack of albacore tuna was 8.2 million standard cases-320,000 standard cases less than the 7.8 million standard cases produced in 1992. Albacore tuna comprised 24 percent of the tuna pack in 1993. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 25.5 million standard cases-211,000 standard cases higher than the 25.3 million standard cases packed in 1992.

CANNED CLAMS. The 1993 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 4.9 million standard cases (116.2 million pounds) valued at \$89.8 million—a decrease of 146,499 standard cases (12.5 million pounds), but \$2.1 million more in value than the pack in 1992. The pack of whole and minced clams was 2.3 million standard cases (473,909 standard cases more than the 1992 pack) and accounted for 47 percent of the total clam pack. Clam chowder and clam juice (2.4 million standard cases) made up the majority of the remaining pack.

CANNED SHRIMP. The U.S. pack of natural shrimp was 97,458 standard cases (658,000 pounds) valued at \$4.1 million--an increase of 2,716 standard cases (18,000 pounds) and 477,000 in value compared with the 1992 pack.

OTHER CANNED ITEMS. The pack of pet food was 13.2 million standard cases valued at \$254.2 million-an increase of 523,604 million standard cases compared with the 1992 pack.



PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$226.0 million--an increase of \$23.0 million compared with the 1992 value of \$203.0 million.

FISH MEAL. The domestic production of fish and shellfish meal was 748.9 million pounds valued at \$130.2 million-an increase of 104.4 million pounds and \$8.2 million compared with 1992. Menhaden meal production was 471.0 million pounds valued at \$78.4 million--an increase of 83.6 million pounds and \$5.6 million compared with 1992. Menhaden accounted for 63 percent of the 1993 production Shellfish meal production was 23.3 million pounds--an increase of 2.7 million pounds from the 1992 level. Tuna and mackerel meal production was 66.0 million pounds-a decrease of 2.5 million pounds from 1992. Production of unclassified meal (consisting mainly of Alaska pollock and unclassified fish) was 188.5 million pounds-an increase of 20.6 million pounds compared with 1992.

FISH SOLUBLES. Domestic production of fish solubles was 126.9 million pounds, 33.9 million pounds more than the 1992 production.

FISH OILS. The domestic production of fish oils was 293.4 million pounds valued at \$40.8 million—an increase of 108.6 million pounds and \$13.5 million in value compared with 1992 production. The production of menhaden oil was 291.4 million pounds valued at \$40.5 million—an increase of 113.7 million pounds and \$14.1 million compared with 1992. Menhaden oil accounted for 99 percent of the volume and value of the total 1993 fish oil production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at \$44.8 million, compared with \$45.3 million in 1992--a decrease of \$550,000.



FOREIGN TRADE IN FISHERY PRODUCTS

<u>IMPORTS</u>. U.S. imports of edible fishery products in 1993 were valued at \$5.8 billion, \$142.9 million more than in 1992. The quantity of edible imports was 2.9 billion pounds, 23.2 million pounds more than the quantity imported in 1992.

Edible imports consisted of 2.5 billion pounds of fresh and frozen products valued at \$5.2 billion, 381.7 million pounds of canned products valued at \$494.1 million, 69.2 million pounds of cured products valued at \$122.5 million, 4.3 million pounds of caviar and roe products valued at \$24.7 million, and 10.6 million pounds of other products valued at \$29.7 million.

The quantity of shrimp imported in 1993 was 601.0 million pounds, 5.5 million pounds more than the quantity imported in 1992. Valued at \$2.2 billion, \$152.1 million more than the 1992 value, shrimp imports accounted for 37 percent of the value of total edible imports. Imports of fresh and frozen tuna were 435.7 million pounds, 914,000 pounds less than the 436.6 million pounds imported in 1992. Imports of canned tuna were 224.4 million pounds, 99.0 million pounds less than the 323.4 million pounds imported in 1992. Imports of fresh and frozen fillets and steaks amounted to 440.4 million pounds, an increase of 32.3 million pounds from 1992. Regular and minced block imports were 211.6 million pounds, a decrease of 17.7 million pounds from 1992.

Imports of nonedible fishery products were valued at \$4.8 billion--an increase of \$608.3 million compared with 1992. The total value of edible

and nonedible products was \$10.6 billion in 1993, \$791.1 million more than in 1992 when \$9.9 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products of domestic origin were 2.0 billion pounds valued at \$3.1 billion, compared with exports of 2.1 billion pounds valued at \$3.5 billion in 1992.

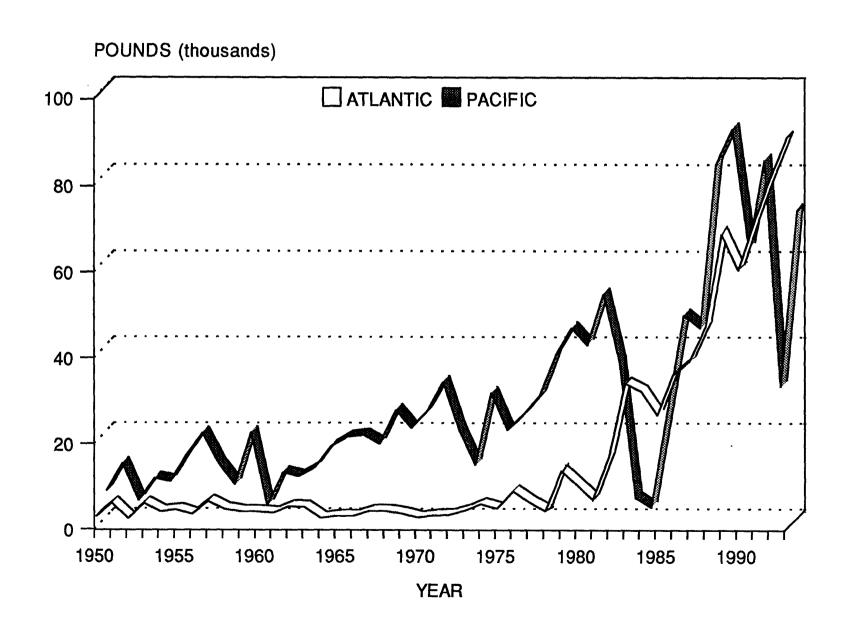
Fresh and frozen items were 1.8 billion pounds valued at \$2.4 billion, a decrease of 40.8 million pounds and \$296.0 million compared with 1992. In terms of individual species, fresh and frozen exports consisted principally of 333.0 million pounds of salmon valued at \$586.9 million, 330.8 million pounds of surimi valued at \$302.2 million and 134.6 million pounds of crabs valued at \$408.7 million. Canned items were 127.5 million pounds valued at \$236.1 million. Salmon was the major canned item exported, with 84.6 million pounds valued at \$160.6 million. Cured items were 8.4 million pounds valued at \$23.0 million. Caviar and roe exports were 82.7 million pounds valued at \$405.8 million.

Exports of nonedible products were valued at a record \$3.8 billion compared with \$3.7 billion in 1992. Exports of fishmeal amounted to 213.0 million pounds valued at \$52.4 million. The total value of edible and nonedible exports was \$6.9 billion—a decrease of \$194.4 million compared with 1992.



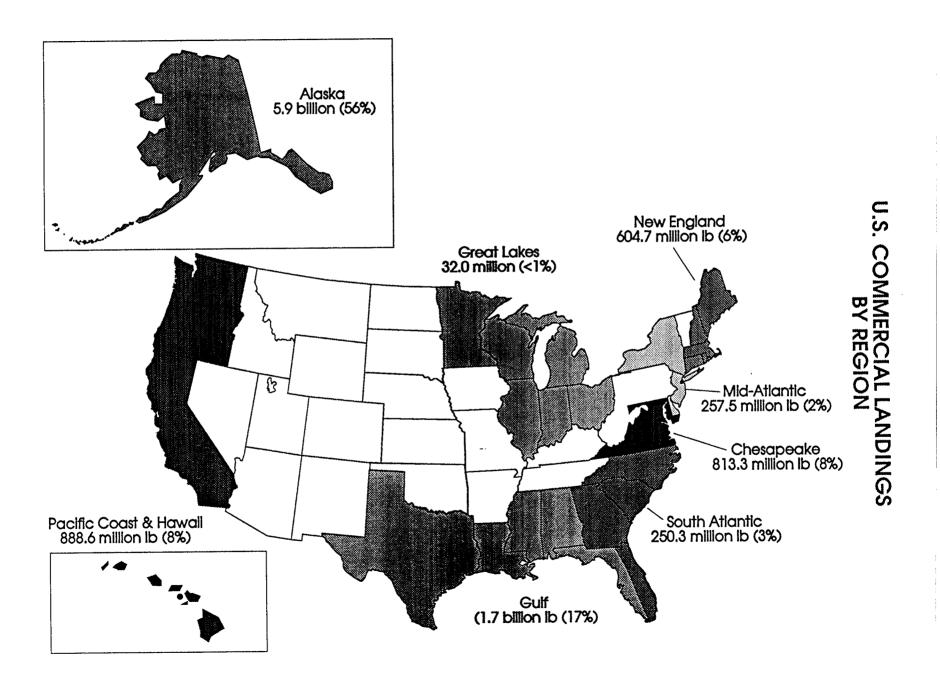
XVIII

SQUID COMMERCIAL LANDINGS BY COAST, 1950 - 1993



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U.S. DOMESTIC LANDINGS, BY SPECIES, 1992 AND 1993 (1)

	1		PECIES, 1992 AND		
Species	199:		1993		Aver. (1988-92)
Fish	Thousand	Thousand	Thousand	Thousand	Thousand
}	pounds	dollars	pounds	dollars	pounds
Alewives:		ļ			ļ.
Atlantic and Gulf.	4,000	603	1.740	151	4,106
Great Lakes	1,131	(2)	147	(2)	9,307
Anchovies	13,679	5,228	9,786	4,518	14,385
Bluefish	11,595	2,694	10,575	2,970	13,182
Bonito	3,449 7,608	876 3,701	1,712 10,470	448 7,039	5,014 6,568
Cod:	/,000	3,701	10,470	1,039	0,300
Atlantic	61,283	52,013	50,503	44,956	80,859
Pacific	550,528	132,480	482,799	116,172	453,996
Croaker	5,077 3,486	1,893 1,731	9,377 3,149	3,758 1,661	7,090 2,782
Flounders:	3,400	1,/31	3,143	1,001	4,782
Atlantic and Gulf:		į			!
Blackback	13,934	15,795	11,613	15,262	15,587
Fluke	19,695	26,815	15,648	22,937	21,541
Yellowtail Other	12,415 26,017	13,915 26,062	7,952 23,734	10,365 28,508	16,927 21,811
Pacific	573,768	60,924	540,161	58,526	271,415
Total	645,829	143,511	599,108	135,598	347,282
1	10,992	21,574	14,093	28,089	12,266
Groupers	5,111	21,574 5,582	1,938	28,089	4,968
Hake:	,,,,,,	3,302	1,730	2,0/2	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Pacific (whiting).	123,748	5,866	310,182	9,326	46,650
Red	4,756	1,032	3,622	870	3,919
White Halibut	19,979 68,579	8,409 53,773	16,536 63,053	7,256 62,391	13,486 72,430
Herring, sea:	1	33,773	55,055	02,371	,2,450
Atlantic	122,993	6,821	109,645	6,511	104,642
Pacific	159,054	35,907	106,572	18,711	128,219
Jack mackerel	2,624 5,292	245 1,905	3,925 4,803	232 1,834	13,234 7,080
Mackerel:	5,434	1,300	4,003	1,034	7,000
Atlantic	26,072	3,724	10,346	1,299	23,680
Chub	41,879	4,118	24,051	1,359	75,589
King	4,485 3,707	5,724	5,418 5,197	6,876 2,196	4,220 5,591
Spanish Menhaden:	3,707	1,119	3,197	2,130	2,391
Atlantic	690,070	33,540	766,773	44,062	730,058
Gulf	954,272	49,433	1,216,546	59,196	1,201,613
Total	1,644,342	82,973	1,983,319	103,258	1,931,671
Mullets	22,479	9,730	31,568	12,870	28,797
Ocean perch:	•		•		
Atlantic	1,867	790	1,764	805	1,621
Pacific	45,484	13,561	45,522	13,477	34,140
Atlantic	15,843	10,543	12,500	8,370	22,106
Alaska	2,952,130	324,735	3,257,990	358,378	2,506,943
Rockfishes	125,069	47,280	120,662	45,696	122,346
Sablefish	75,451	79,634	77,467	83,861	90,793
Chinook or king	17,775	36,197	18,643	27,703	28,162
Chum or keta	90,410	45,428	90,419	38,374	90,389
Pink	203,740	31,940	343,107	45,586	276,667
Red or sockeye	346,573	421,304	394,929	281,469	279,354
Silver or coho	57,330	47,981	41,036	30,398	50,284
Total	715,828	582,850	888,134	423,530	724,855
Scup or porgy	14,014	8,669	10,301	6,439	13,110
Sea bass:	4 055	4 405		2 262	
Black	4,255	4,405	3,369 97	3,263 199	4,346 121
White Sea trout:	118	249	71	177	121
Gray	7,467	4,479	7,032	4,216	12,147
Spotted	2,368	2,724	2,339	2,773	2,701
White	280	154	309	168	288
Sharks: Dogfish	42,327	4,675	50,164	6,257	27,074
Other	16,824	7,841	15,338	9,199	15,248
<u> </u>					

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1992 AND 1993 (1) - Continued

Species	1992	·	1991		Aver. (1988-92)
Fish - Continued:	Thousand	Thousand	Thousand	Thousand	Thousand
113h concinaca:		dollars	pounds	dollars	
Cnapper.	pounds	gorrars	bounds	QUITALS	pounds
Snapper:	3,471	7,354	3,520	7,608	3,409
Other	6,717	12,949	8,616	17,288	6,943
Striped bass	1,276	1,921	1,683	3,003	750
Swordfish	19,713	60,320	21,951	55,544	15,212
Tilefish	5,352	7,833	5,894	7,063	3,988
Tuna:]	,,,,,,,	3,051	,,,,,,	1
Albacore	12,062	12,646	14,582	12,756	8,371
Bigeye	5,134	19,672	5,861	20,400	4,776
Bluefin	4,503	16,913	3,530	21,274	4,075
Skipjack	9,295	3,859	11,455	5,754	12,399
Yellowfin	23,644	35,955	18,224	29,973	40,319
Unclassified	2,165	1,777	1,740	1,273	1,189
Total	56,803	90,822	55,392	91,430	71,131
Whiting	35,893	10,990	35,735	12,872	38,370
Other marine				•	-
finfishes	414,021	109,399	468,451	120,767	
Other freshwater					
finfishes	37,855	25,196	31,278	18,894	_
Total, fish	8,174,183	2,012,605	8,999,142	1,884,121	-
Shellfish et al.					
Clams:					
Hard	12,346	55,588	15,609	59,050	11,228
Ocean quahog	50,445	19,540	51,654	20,565	48,728
Soft	3,937	15,968	4,472	19,009	5,512
Surf	74,584	32,423 3,810	73,913 2,104	33,865 5,541	68,638 3,053
Other					
Total	142,449	127,329	147,752	138,030	137,159
Crabs:	102 700	89,006	249,268	126,585	208,398
Blue, hard	192,708 41,686	48,620	55,453	49,976	36,767
Dungeness	19,056	79,097	24,732	93,161	25,695
King Snow (tanner)	350,039	223,808	255,733	210,638	246,305
Other	20,833	30,792	19,251	30,134	20,382
1					war and the same of the same of
Total	624,322	471,323	604,437	510,494	537,548
Lobsters:		460 054	56 540	454 546	56 050
American	55,841	160,951	56,513	151,746	56,353
Spiny	4,872	20,151	6,076	20,984	6,876
Oysters	36,156	114,536	33,575	86,698	31,805
Scallops	356	2,069	522	3,258	435
Bay	(3)	(3')	(3)	3,256	19,583
Sea	33,528	162,229	18,116	105,603	35,412
Shrimp:] 33,320	102,423	10,110	103,003	33,414
New England	7,444	7,482	5,006	5,153	7,854
South Atlantic	24,705	51,382	26,499	49,483	29,546
Gulf	222,066	388,847	206,401	335,410	230,913
Pacific	83,550	32,243	54,946	22,678	69,033
Other	-	-	35	172	-
Total	337,765	479,954	292,887	412,896	337,347
Squid:					
Atlantic	81,944	33,925	90,809	38,323	65,250
Pacific	30,436	2,698	71,550	8,079	55,219
Other shellfish	115,451	90,165	145,516	111,228	
Total, shellfish					
et al	1,463,120	1,665,330	1,467,753	1,587,339	
Grand total	9,637,303	3,677,935	10,466,895	3,471,460	
Grand Corat	37,002,000	3,0/1,333	TO , #00, 033	27.41.77.400	

⁽¹⁾ Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage area States are not available.
(2) Less than \$500. (3) Data are confidential and included with unclassified shellfish.
Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in the U.S. waters. Therefore, they will not agree with "U.S. Commerical Landings" table on page 6. Data do not include aquaculture products, except oysters

U.S. DOMESTIC LANDINGS, BY STATES, 1992 AND 1993 (1)

States	1992	2	199	3	Record	l Landings
	Thousand	Thousand	Thousand	Thousand		Thousand
	pounds	dollars	<u>pounds</u>	dollars	Year	pounds
Alabama	23,689	35,566	22,093	34,242	1973	36,744
Alaska	5,637,937	1,577,421	5,905,638	1,429,536	1993	5,905,638
California	302,380	136,306	281,476	119,749	1936	1,760,193
Connecticut	19,634	62,672	17,398	50,885	1930	88,012
Delaware	6,554	4,207	7,191	4,628	1953	367,500
Florida	152,169	154,889	178,751	208,833	1938	241,443
Georgia	17,620	22,957	15,743	21,231	1927	47,607
Hawaii	27,893	70,209	34,582	69,082	1993	34,582
Illinois	187	367	194	275	-	(2)
Indiana	1,358	2,550	1,596	2,294	-	(2)
Louisiana	1,013,575	294,986	1,292,893	261,822	1984	1,931,027
Maine	201,217	163,341	236,406	181,136	1950	356,266
Maryland	57,067	36,424	84,938	53,399	1890	141,607
Massachusetts	274,269	280,589	219,166	232,103	1948	649,696
Michigan	15,057	10,337	16,861	9,336	1930	35,580
Minnesota	269	101	371	138	-	(2)
Mississippi	187,634	31,348	181,339	29,436	1985	439,518
New Hampshire	10,328	11,503	10,971	11,836		(2)
New Jersey	204,368	97,500	196,101	96,288	1956	540,060
New York	50,112	53,985	54,340	54,163	1880	335,000
North Carolina	154,035	57,458	164,883	57,890	1981	432,006
Ohio	4,985	2,555	5,332	1,731	1936	31,083
Oregon	256,912	76,240	210,246	61,332	1992	256,912
Pennsylvania	485	395	230	171	-	(2)
Rhode Island	141,655	85,681	120,756	76,320	1957	142,080
South Carolina	19,272	25,621	18,843	25,843	1965	26,611
Texas	96,125	181,353	90,573	152,755	1960	237,684
Virginia	630,521	90,500	728,345	108,117	1990	786,794
Washington	121,512	104,960	362,344	111,779	1941	197,253
Wisconsin	8,484	5,914	7,295	5,110	-	(2)
Total	9,637,303	3,677,935	10,466,895	3,471,460	ija i F	

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available.
(2) Data Not available.

NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables on page 6. Data do not include aquaculture products, except oysters and clams.

U.S. DOMESTIC LANDINGS, BY REGIONS, 1992 AND 1993 (1)

Region	1992		1993	
	Thousand	Thousand	Thousand	Thousand
	pounds	dollars	pounds	dollars
New England. Middle Atlantic. Chesapeake. South Atlantic. Gulf. Pacific Coast	647,103	603,786	604,697	552,280
	260,817	155,478	257,537	154,989
	687,588	126,924	813,283	161,516
	237,720	152,037	250,346	161,314
	1,426,399	652,141	1,714,772	630,738
and AlaskaGreat Lakes	6,318,741	1,894,927	6,759,704	1,722,396
	31,042	22,433	31,974	19,145
	27,893	70,209	34,582	69,082
Total	9,637,303	3,677,935	10,466,895	3,471,450

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available.

NOTE: --Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables on page 6. Data do not include aquaculture products, except oysters and clams.

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DISPOSITION OF U.S. DOMESTIC LANDINGS, 1992 AND 1993

End Use	1992		1993	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen: For human food For bait and	7,007	72.7	7,499	71.6
animal food	281	2.9	245	2.3
Total	7,288	75.6	7,744	74.0
Canned:				
For human food For bait and	501	5.2	600	5.7
animal food	42	0.4	49	0.5
Total	543	5.6	649	6.2
Cured for human food	110	1.1	115	1.1
Reduction to meal,				
oil, etc	1,696	17.6	1,959	18.7
Grand total	9,637	100.0	10,467	100.0

NOTE: -- Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1993

Month	Landings	for	Landings for	Industrial		
	Human f	ood	purposes	s (1)	Total	
	Million	Percent	Million	Percent	Million	Percent
	<u>pounds</u>		pounds		pounds	
January	524	6.4	22	1.0	546	5.2
February	1,110	13.5	30	1.3	1,140	10.9
March	759	9.2	27	1.2	786	7.5
April	420	5.1	55	2.4	475	4.5
May	606	7.4	268	11.9	874	8.4
June	590	7.2	294	13.0	884	8.4
July	793	9.7	410	18.2	1,203	11.5
August	1,102	13.4	384	17.0	1,486	14.2
September	1,209	14.7	313	13.9	1,522	14.5
October	584	7.1	269	11.9	853	8.1
November	259	3.2	133	5.9	392	3.7
December	258	3.1	48	2.1	306	2.9
Total	8,214	100.0	2,253	100.0	10,467	100.0

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1984-1993 (1)

Year	Landing:	s for	Landings for	Industrial			
	Human	Food	Purpo	ses (2)	Total		
	Million pounds	Million dollars	Millions pounds	Million dollars	Millions pounds	Million dollars	
1984	3,320	2,206	3,118	144	6,438	2,350	
1985	3,294	2,198	2,964	128	6,258	2,326	
1986	3,393	2,641	2,638	122	6,031	2,763	
1987	3,946	2,979	2,950	136	6,896	3,115	
1988	4,588	3,362	2,604	158	7,192	3,520	
1989	6,204	3,111	2,259	127	8,463	3,238	
1990	7,041	3,366	2,363	156	9,404	3,522	
1991	7,031	3,169	2,453	139	9,484	3,308	
1992	7,618	3,531	2,019	147	9,637	3,678	
1993	*8,214	3,311	2,253	154	*10,467	3,465	

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). All data are preliminary. (2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food. * Record. Record--1983 industrial purposes, 3,201 million lb. NOTE:--Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1991-93

	Quantity				Value			
Port		Quantit	<u>, </u>	Port		Value		
	1991	1992	1993		1991	1992	1993	
	Mill	ion pour	nds		Milli	on dolla	ars	
Dutch Harbor-Unalaska, AK Kodiak, AK Empire-Venice, LA Cameron, LA Intercoastal City, LA Pascagoula-Moss Point, MS Morgan City-Berwick, LA Dulac-Chauvin, LA. Petersburg, AK. Ketchikan, AK	731.7 287.3 309.4 289.1 211.4 227.3 119.5 166.8 90.3 68.5	736.0 274.0 276.5 246.3 175.9 177.0 130.8 66.0 81.0 70.0	793.9 374.2 335.4 323.1 202.7 169.7 147.5 142.4 110.2	Dutch Harbor-Unalaska, AK New Bedford, MA Kodiak, AK Empire-Venice, LA Portland, ME Dulac-Chauvin, LA. Browsville-Port Isabel, TX Cape May-Wildwood, NJ Point Judith, RI Key West, FL	130.6 157.7 96.9 50.2 44.1 52.1 71.5 40.1 37.5 35.1	194.0 151.8 90.0 58.7 43.6 52.8 54.9 34.9 36.6 17.4	161.2 107.5 81.5 52.3 49.1 48.0 46.6 36.2 35.2	
Los Angeles, CA. Cape May-Wildwood, NJ. Newport, OR. Beaufort-Morehead City, NC. Portland, ME. New Bedford, MA. Astoria, OR. Gloucester, MA. Point Judith, RI Bellingham, WA.	141.5 93.1 52.0 137.0 63.4 106.4 53.0 107.2 64.7	94.9 93.9 24.0 79.0 59.2 103.3 67.0 101.7 66.7 42.0	99.8 95.0 89.0 88.4 86.1 82.1 68.0 67.6 60.4 45.7	Petersburg, AK. Gloucester, MA Cameron, LA Ketchikan, AK. Kenai, AK. Golden Meadow-Leeville, LA Bayou La Batre, AL Aransas Pass-Rockport, TX. Bellingham, WA. Tampa Bay-St. Petersburg, FL.	34.6 40.0 26.3 21.9 13.2 28.7 24.6 41.6 21.0	33.0 34.1 26.9 27.0 83.0 28.6 24.0 32.3 15.0 (1)	32.8 31.3 27.4 27.0 26.9 26.2 24.3 24.0 20.2	
Atlantic City, NJ	39.2 50.2 21.5 23.0 31.8 30.0 20.0 27.4	43.6 18.7 70.0 29.9 39.9 38.0 26.0 32.0	41.6 39.9 38.1 32.1 31.9 29.0 28.2 26.3	Astoria, OR. Olympia, WA. Galveston, TX. Port Arthur, TX. Westport, WA. Hampton Roads Area, VA. Atlantic City, NJ. Cape Canaveral, FL.	17.0 (1) 21.2 20.6 12.0 32.4 17.8 9.9	19.0 (1) 22.3 21.0 18.0 33.3 20.4	19.0 18.8 18.2 18.2 18.1 17.9 17.8 17.2	
Crescent City, CA Point Pleasant, NJ	30.2	39.2 30.0	24.3 21.9	Newport, OR	14.0 17.1	22.0 15.6	17.0 15.8	
Ilwaco-Chinook, WA	12.0 23.6 18.0 14.1 24.4 29.6 20.0 47.5 40.4	17.0 21.9 25.0 9.4 16.7 22.9 21.2 30.0 22.0	21.4 20.8 20.6 20.3 19.2 18.9 18.3 18.1 18.0	Beaufort-Morehead City, NC Biloxi, MS Palacios, TX Sitka, AK Wanchese-Stumpy Point, NC Los Angeles, CA Grand Isle, LA Morgan City-Berwick, LA Freeport, TX Delcambre, LA	23.0 8.9 (1) 26.2 11.0 17.4 12.3 9.4 12.6	16.5 16.6 (1) 19.0 13.0 14.6 13.2 14.3 11.4 15.2	15.6 15.3 15.1 14.3 14.2 13.7 13.5 13.0 12.8	
Seward, AK. Bayou La Batre, AL. Port St. Joe, FL. Monterey, CA. Ocean City, MD. Homer, AK. Aransas Pass Rockport, TX. Cape Canaveral, FL. San Francisco Area, CA. Delacroix-Yscloskey, LA.	44.6 14.9 (1) 19.3 25.4 28.2 21.2 7.8 26.0 11.0	24.0 16.2 (1) 17.9 17.9 18.0 17.0 10.8 19.6	13.4	Crescent City, CA	11.5 12.0 9.0 8.0 15.0 13.0 11.8 12.0 14.3 13.0	15.9 14.4 14.0 12.6 14.9 15.0 11.9 10.4 10.6	12.4 12.2 11.9 11.8 11.7 11.0 11.0 10.9	
Apalachicola, FL	5.8 11.8 (1) 14.2 15.0	(1) 12.7 (1) 14.1 12.0	12.6 12.5 12.4 12.3 11.6	Cordova, AK	19.5 15.1 (1) 14.9	17.0 12.4 10.9 16.0	10.7 10.7 10.7 10.4	
Craig, AK. Boston, MA. Freetport, TX. Seattle, WA. Wrangell, AK.	15.0 12.6 15.2 6.0 26.0 11.9	7.0 14.2 8.5 7.0 8.0	11.6 11.3 11.1 11.1 10.3 10.2	Ventura, CA Bon Secour-Gulf Shores, AL Seattle, WA San Francisco Area, CA Ilwaco-Chinook, WA Eureka, CA	14.0 11.4 15.0 16.1 5.0 8.0	10.7 10.6 6.0 13.3 7.0 10.1	9.4 9.4 9.3 9.3	

⁽¹⁾ Not available. *Record. Record quantity was 848.2 million lb landed in Los Angeles, CA in 1960.

NOTE:--To avoid disclosure of private enterprise certain leading ports have not been included.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1993 (1)

				AL WATERS,				
			off U.S. Sho	ores		onal Waters	m - £	_ 7
Species	l .				•	catch off	Tot	aı
		Miles (2)		00 Miles	foreign			
Fish	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand
1	pounds	dollars	pounds	dollars	pounds	dollars	pounds	<u>dollars</u>
Alewives:				_				
Atlantic and Gulf.	1,734	150	6	1	-	-	1,740	151
Great Lakes	147	(3)	_	~	-	-	147	(3)
Anchovies	8,817	4,069	969	449	-	-	9,786	4,518
Bluefish	6,501	1,925	4,074	1,045	-	-	10,575	2,970
Bonito	597	152	1,115	296	-	-]	1,712	448
Butterfish	842	447	9,628	6,592	-	-	10,470	7,039
Cod:			1.					1
Atlantic	437	421	50,061	44,530	5	5	50,503	44,956
Pacific	29,149	7,028	453,650	109,144	-	- 1	482,799	116,172
Croaker	7,325	3,068	2,052	690	-	-	9,377	3,758
Cusk	8	3	3,141	1,658	-	_	3,149	1,661
Flounders:								
Atlantic and Gulf:		•	1		i			
Blackback	1,038	1,084	10,575	14,178	-	-	11,613	15,262
Fluke	5,488	7,924	10,160	15,013	_	-	15,648	22,937
Yellowtail	100	130	7,852	10,235	_	_	7,952	10,365
Other	1,607	2,142	22,127	26,366	-	-	23,734	28,508
Pacific	37,267	5,101	502,894	53,425	-	- (540,161	58,526
Total	45,500	16,381	553,608	119,217	a a ka sa‱ala isa a waa		599,108	135,598
Groupers	376	794	14,053	27,950		<u> 1 200 (1, 201 (1), 201 (1)</u>	14,429	28,744
Haddock	2	3	1,936	2,669	_	-	1,938	2,672
Hake:	_	_	2,755	_,	li	ł	-,,	_,
Pacific (whiting).	8,599	295	301,583	9,031	_	_	310,182	9,326
Red	234	45	3,388	825	<u>-</u>	_	3,622	870
White	30	10	16,499	7,242	7	4	16,536	7,256
Halibut	18,658	17,925	45,965	45,946	1	1	64,624	63,872
Herring, sea:	10,050	1,,525	43,303	43,540	•		04,024	03,072
Atlantic	71,675	4,381	51,999	2,898	647	39	124,321	7,318
Pacific	106,572	18,711	31,333	2,038	047	_	106,572	18,711
	100,372	10,711	2 025	222	-	-		
Jack mackerel	302	108	3,925 4,501	232 1,726	-	-	3,925	232
1 -	302	108	4,501	1,/26	-	-	4,803	1,834
Mackerel:		400	0 700	4 4 7 0			10 011	4 555
Atlantic	644	120	9,702	1,179	_	- [10,346	1,299
Chub	21,640	1,221	2,411	138	_	- [24,051	1,359
King	520	551	4,898	6,325	-	- (5,418	6,876
Spanish	2,646	1,189	2,551	1,007	-	-	5,197	2,196

See footnotes at end of table.

(Continued)

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COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1993 (1) -- Continued

	Dis		off U.S. Sh		Internation	onal Waters		
Species					B .	catch off	Tot	al
_	0 to 3 h	Miles (2)	3 to 2	00 Miles	foreign			
Fish - Continued:	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand
	pounds	dollars	pounds	dollars	pounds	dollars	pounds	dollars
Menhaden							,52,311.52	2022,20
Atlantic	764,972	43,643	24,585	1,330	_	_	789,557	44,973
Gulf	955,466	46,609	261,080	12,587	-	-	1,216,546	59,196
Total	1,720,438	90,252	285,665	13,917	_	-	2,006,103	104,169
Mullet	31,545	12,866	23	4	-	<u>- 2011 - 1948 - 19</u>	31,568	12,870
Ocean perch:								,
Atlantic	1	(3)	1,763	805	_	_	1,764	805
Pacific	2,316	695	43,206	12,782	-	-	45,522	13,477
Pollock:				-			,	,
Atlantic	20	12	12,476	8,355	4	3	12,500	8,370
Alaska	195,479	21,503	3,062,511	336,875	_	-	3,257,990	358,378
Rockfishes	4,875	2,038	115,787	43,658	_	-	120,662	45,696
Sablefish	4,129	4,925	73,338	78,936	-	-	77,467	83,861
Salmon:								
Chinook or king	15,430	21,320	3,213	6,383	_	-	18,643	27,703
Chum or keta	15,798	7,834	74,621	30,540	_	_	90,419	38,374
Pink	343,107	45,586	· _	_	_	_	343,107	45,586
Red or sockeye	394,924	281,464	5	5	_	-	394,929	281,469
Silver or coho	38,954	27,982	2,082	2,416		-	41,036	30,398
Total	808,213	384,186	79,921	39,344			888,134	423,530
Scup or porgy	1,781	1,228	8,520	5,211	-	-	10,301	6,439
Sea bass:							•	
Black	284	468	3,085	2,795	-	-	3,369	3,263
White	78	159	19	40	_	-	97	199
Sea trout:				1	1			
Gray	3,306	2,273	3,726	1,943	-	-	7,032	4,216
Spotted	2,337	2,771	2	2	-		2,339	2,773
White	246	136	63	32	-	-	309	168
Sharks:					ļ			
Dogfish	7,650	1,059	42,514	5,198	-	-	50,164	6,257
Other	1,822	1,152	11,838	6,165	1,675	1,874	15,335	9,191
Snapper:								
Red	52	247	3,468	7,361	-	-	3,520	7,608
Other	925	2,026	8,031	16,027	-	-	8,956	18,053
Striped bass	1,656	2,968	27	35	-	-	1,683	3,003
Swordfish	9	19	12,865	36,955	9,077	18,570	21,951	55,544
Tilefish	155	270	5,739	6,793		-	5,894	7,063

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1993 (1) -- Continued

Distance caught off U.S. Shores International Waters (Includes catch off foreign coasts)	dollars 15,876 02 22,797 30 21,274 54 141,716 31 66,978 40 1,273
Tish - Continued: Thousand Th	Thousand dollars 15,876 02 22,797 30 21,274 141,716 31 66,978 40 1,273
Fish - Continued: Thousand pounds Thousand dollars Thousand pounds Thousand pounds Thousand dollars Thousand pounds Thousand pounds Thousand dollars Thousand pounds <	dollars 23
Dounds dollars Dounds dollars Dounds dollars Dounds dollars Dounds Tuna: Albacore 51 58 7,232 6,276 10,140 9,542 17,4 Bigeye 46 144 3,089 10,944 8,167 11,709 11,3 Bluefin 1 1 3,229 21,066 300 207 3,5 Skipjack 763 893 2,550 2,134 345,541 138,689 348,8 Yellowfin 718 1,583 10,305 23,362 94,108 42,033 105,1	dollars 15,876 22,797 30 21,274 141,716 31 66,978 40 1,273
Tuna: Albacore	15,876 02 22,797 30 21,274 54 141,716 31 66,978 40 1,273
Albacore	22,797 30 21,274 54 141,716 31 66,978 40 1,273
Bigeye 46 144 3,089 10,944 8,167 11,709 11,3 Bluefin 1 1 3,229 21,066 300 207 3,5 Skipjack 763 893 2,550 2,134 345,541 138,689 348,8 Yellowfin 718 1,583 10,305 23,362 94,108 42,033 105,1	22,797 30 21,274 54 141,716 31 66,978 40 1,273
Bluefin. 1 1 3,229 21,066 300 207 3,5 Skipjack. 763 893 2,550 2,134 345,541 138,689 348,8 Yellowfin. 718 1,583 10,305 23,362 94,108 42,033 105,1	30 21,274 54 141,716 31 66,978 40 1,273
Skipjack 763 893 2,550 2,134 345,541 138,689 348,8 Yellowfin 718 1,583 10,305 23,362 94,108 42,033 105,1	54 141,716 31 66,978 40 1,273
Yellowfin	31 66,978 40 1,273
	40 1,273
1 UNCLASSITURG	
	90 269.914
Total 1,939 2,732 27,643 64,970 458,398 202,212 487,9	
Whiting 661 279 35,074 12,593 35,7	35 12,872
Other marine	:
finfishes 165,132	77 120,826
Other freshwater	
finfishes 31,278 18,894 31,2	78 18,894
Total fish 3,319,282 677,767 5,680,180 1,164,306 471,998 225,202 9,471,4	60 2,067,275
Shellfish, et al	
Clams:	
Hard 15,609 59,050 15,6	09 59,050
Ocean quahog 2,860 943 48,794 19,622 51,6	54 20,565
Soft 4,472 19,009 4,4	72 19,009
Surf	13 33,865
Other 2,104 5,540 (3) 1 ~ - 2,1	04 5,541
Total 50,542 96,460 97,210 41,570 147,7	52 138,030
Crabs:	
Blue, hard 248,109 125,971 1,159 614 249,2	68 126,585
Dungeness 46,528 40,025 8,925 9,951 ~ - 55,4	53 49,976
King 21,938 82,709 2,794 10,452 24,7	32 93,161
Snow (tanner) 19,259 33,102 236,474 177,536 ~ - 255,7	
Other 8,684 15,234 10,567 14,900 19,2	51 30,134
Total 344,518 297,041 259,919 213,453 604,4	37 510,494
Lobsters:	
American 48,786 125,844 7,727 25,902 ~ - 56,5	13 151,746
Spiny 2,579 9,788 3,497 11,196 6,0	·
Oysters	•

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS. 1993 (1) -- Continued

	Di	stance caugh	off U.S. Sh	ores	International Waters			
Species				(Includes catch off		Total		
	0 to 3 1	Miles (2)	3 to 200 Miles		foreign coasts)			
Shellfish - Continued:	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand
	pounds	dollars	pounds	<u>dollars</u>	pounds	<u>dollars</u>	pounds	dollars
Scallops:								
Вау	522	3,257	(3)	1	-	-	522	3,258
Calico	-	-	(4)	(4)	-	-	(4)	(4)
Sea	2,920	14,855	15,191	90,716	5	. 32	18,116	105,603
Shrimp:								
New England	1,163	1,262	3,843	3,891	-	-	5,006	5,153
South Atlantic	19,970	42,371	6,529	7,112	-	-	26,499	49,483
Gulf	109,987	144,507	96,414	190,903	-	-	206,401	335,410
Pacific Coast	5,614	3,955	49,364	18,886	-	-	54,978	22,841
Other	_		4,522	12,210	_	_	4,522	12,210
Total	136,734	192,095	160,672	233,002			297,406	425,097
Squid:								
Atlantic	4,441	2,938	86,368	35,385	-	·	90,809	38,323
Pacific	71,333	8,075	217	4	-	_	71,550	8,079
Other shellfish	136,510	95,479	9,006	15,749	-	-	145,516	111,228
Total shell-								
fish et al	832,460	932,530	639,807	666,978	5	32	1,472,272	1,599,540
Grand total,								
1993	4,151,742	1,610,297	6,319,987	1,831,284	472,003	225,234	10,943,732	3,666,815
Grand total,								
1992 (5)	3,505,342	1,643,528	6,175,863	1,995,476	553,815	243,455	10,235,020	3,883,459

⁽¹⁾ Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oyster and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance from shore for Texas landings data collected by Texas Parks and Wildlife Department.

- (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.
- (3) Less than 500 lb or \$500.
- (4) Data are confidential and included with unclassified shellfish.
- (5) For individual species breakout see "Fisheries of the United States, 1992" pages 6-9.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 5° States, and catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters and clams.

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COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1993 (1)

		stance caught			International Waters			
Species	-				(Includes catch off		Total	
	0 to 3 Miles (2)		3 to 20	3 to 200 Miles		coasts)		
Fish	Metric	Thousand	Metric	Thousand	Metric	Thousand	Metric	Thousand
	tons	<u>dollars</u>	<u>tons</u>	<u>dollars</u>	<u>tons</u>	dollars	tons	<u>dollars</u>
Alewives:								
Atlantic and Gulf.	787	150	3	1	-	-	789	151
Great Lakes	67	(3)	-	-	-	-	67	(3)
Anchovies	3,999	4,069	440	449	-	-	4,439	4,518
Bluefish	2,949	1,925	1,848	1,045		-	4,797	2,970
Bonito	271	152	506	296	-	-	777	448
Butterfish	382	447	4,367	6,592	-	-	4,749	7,039
Cod:								
Atlantic	198	421	22,708	44,530	2	5	22,908	44,956
Pacific	13,222	7,028	205,774	109,144	-	-	218,996	116,172
Croaker	3,323	3,068	931	690	_	-	4,253	3,758
Cusk	4	3	1,425	1,658	-		1,428	1,661
Flounders:								
Atlantic and Gulf:								
Blackback	471	1,084	4,797	14,178	-	-	5,268	15,262
Fluke	2,489	7,924	4,609	15,013	-	-	7,098	22,937
Yellowtail	45	130	3,562	10,235	-	-	3,607	10,365
Other	729	2,142	10,037	26,366	-	-	10,766	28,508
Pacific	16,904	5,101	228,111	53,425	-	-	245,015	58,526
Total	20,639	16,381	251,115	119,217			271,754	135,598
Groupers	171	794	6,374	27,950	_	-	6,545	28,744
Haddock	1	3	878	2,669	-	-	879	2,672
Hake:								
Pacific (whiting).	3,900	295	136,797	9,031	-	-	140,698	9,326
Red	106	45	1,537	825	-		1,643	870
White	14	10	7,484	7,242	3	4	7,501	7,256
Halibut	8,463	17,925	20,850	45,946	(3)	1	29,313	63,872
Herring, sea:								
Atlantic	32,512	4,381	23,587	2,898	293	39	56,392	7,318
Pacific	48,341	18,711	•••	_ '	-	-	48,341	18,711
Jack mackerel	-	-	1,780	232	-	-	1,780	232
Lingcod	137	108	2,042	1,726		-	2,179	1,834
Mackerel:								
Atlantic	292	120	4,401	1,179	-	-	4,693	1,299
Chub	9,816	1,221	1,094	138	=	-	10,909	1,359
King	236	551	2,222	6,325	-	-	2,458	6,876
Spanish	1,200	1,189	1,157	1,007	<u>-</u>	-	2,357	2,196

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1993 (1) -- Continued

			off U.S. Sh		International Waters			
Species					(Includes catch off		Total	
	0 to 3 Miles (2)		3 to 200 Miles		foreign coasts)		10001	
Fish - Continued:	Metric	Thousand	Metric	Thousand	Metric	Thousand	Metric	Thousand
	tons	dollars	tons	dollars	tons	dollars	tons	<u>dollars</u>
Menhaden				<u> </u>	50115	<u> 4011419</u>	COIIS	dorrars
Atlantic	346,989	43,643	11,152	1,330	_	_	358,141	44,973
Gulf	433,397	46,609	118,425	12,587	_	_	551,822	59,196
Total	780,386	90,252	129,577	13,917	_		909,962	104,169
Mullet	14,309	12,866	10	4			14,319	12,870
Ocean perch:				•			14,515	12,070
Atlantic	(3)	(3)	800	805	_	_	800	805
Pacific	1,051	695	19,598	12,782	_	_	20,649	13,477
Pollock:	·			,			20,015	13,4,,
Atlantic	9	12	5,659	8,355	2	3	5,670	8,370
Alaska	88,669	21,503	1,389,146	336,875	_	-	1,477,815	358,378
Rockfishes	2,211	2,038	52,521	43,658	_	-	54,732	45,696
Sablefish	1,873	4,925	33,266	78,936	-		35,139	83,861
Salmon:								
Chinook or king	6,999	21,320	1,457	6,383	_	-	8,456	27,703
Chum or keta	7,166	7,834	33,848	30,540	-	_	41,014	38,374
Pink	155,632	45,586	-	-	_	-	155,632	45,586
Red or sockeye	179,136	281,464	2	5	-	-	179,139	281,469
Silver or coho	17,669	27,982	944	2,416	<u> </u>	- 1	18,614	30,398
Total	366,603	384,186	36,252	39,344		-	402,855	423,530
Scup or porgy	808	1,228	3,865	5,211	-	-	4,673	6,439
Sea bass:	1			•		,		
Black	129	468	1,399	2,795	-	-	1,528	3,263
White	35	159	9	40	-	-	44	199
Sea trout:				l				
Gray	1,500	2,273	1,690	1,943	-	-	3,190	4,216
Spotted	1,060	2,771	(3)	2	-	-	1,060	2,773
White	112	136	29	32	-	-	140	168
Sharks:				į			1	
Dogfish	3,470	1,059	19,284	5,198	-	-	22,754	6,257
Other	826	1,152	5,370	6,165	760	1,874	6,956	9,191
Snapper:	1			İ				
Red	24	247	1,573	7,361	-	-	1,597	7,608
Other	420	2,026	3,643	16,027	-		4,062	18,053
Striped bass	751	2,968	12	35	-	- 1	763	3,003
Swordfish	4	19	5,836	36,955	4,117	18,570	9,957	55,544
Tilefish	70	270	2,603	6,793			2,674	7,063

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1993 (1) -- Continued

	Dis	tance caught		onal Waters				
Species						(Includes catch off		al
	0 to 3 N	files (2)	3 to 20	00 Miles	foreign coasts)]	
Fish - Continued:	Metric	Thousand	Metric	Thousand	Metric	Thousand	Metric	Thousand
	tons	dollars	tons	dollars	tons	dollars	tons	dollars
Tuna:	ļ ———							· · · · · · · · · · · · · · · · · · ·
Albacore	23	58	3,280	6,276	4,599	9,542	7,903	15,876
Bigeye	21	144	1,401	10,944	3,705	11,709	5,127	22,797
Bluefin	(3)	1	1,465	21,066	136	207	1,601	21,274
Skipjack	346	893	1,157	2,134	156,736	138,689	158,239	141,716
Yellowfin	326	1,583	4,674	23,362	42,687	42,033	47,687	66,978
Unclassified	163	53	562	1,188	64	32	789	1,273
Total	880	2,732	12,539	64,970	207,928	202,212	221,346	269,914
Whiting	300	279	15,909	12,593	-	-	16,209	12,872
Other marine								
finfishes	74,903	45,612	136,606	72,720	991	2,494	212,500	120,826
Other freshwater								
finfishes	14,188	18,894	-		·		14,188	18,894
Total fish	1,505,616	677,767	2,576,513	1,164,306	214,097	225, 202	4,296,226	2,067,275
Shellfish, et al								
Clams:]							
Hard	7,080	59,050	-	-	-	-	7,080	59,050
Ocean quahog	1,297	943	22,133	19,622	-	-	23,430	20,565
Soft	2,028	19,009	_	-	-	-	2,028	19,009
Surf	11,565	11,918	21,961	21,947	-	-	33,527	33,865
Other	954	5,540	(3)	1	-	-	954	5,541
Total	22,926	96,460	44,094	41,570	-		67,020	138,030
Crabs:								
Blue, hard	112,542	125,971	526	614	-	-	113,067	126,585
Dungeness	21,105	40,025	4,048	9,951	-	-	25,153	49,976
King	9,951	82,709	1,267	10,452	-	- ,	11,218	93,161
Snow (tanner)	8,736	33,102	107,264	177,536	-	-	116,000	210,638
Other	3,939	15,234	4,793	14,900	-	-	8,732	30,134
Total	156,272	297,041	117,898	213,453		-	274,171	510,494
Lobsters:	00.100	105 044	2 525	25 225	}			
American	22,129	125,844	3,505	25,902	_	=	25,634	151,746
Spiny	1,170	9,788	1,586	11,196	-	-	2,756	20,984
Oysters	15,230	86,698				_	15,230	86,698

See footnotes at end of table.

(Continued)

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COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1993 (1) -- Continued

	Dis		off U.S. Sho		Internation	nal Waters		
Species					(Includes catch off		Total	
	0 to 3 M	files (2)	3 to 20	3 to 200 Miles		coasts)		
Shellfish - Continued:	Metric	Thousand	<u>Metric</u>	Thousand	Metric	Thousand	Metric	Thousand
	tons	dollars	tons	dollars	tons	dollars	tons	dollars
Scallops:		·			•			
Bay	237	3,257	(3)	1	-	~	237	3,258
Calico	-	-	(4)	(4)	_	-	(4)	(4)
Sea	1,325	14,855	6,891	90,716	2	32	8,217	105,603
Shrimp:								
New England	528	1,262	. 1,743	3,891	-	-	2,271	5,153
South Atlantic	9,058	42,371	2,962	7,112	-	-	12,020	49,483
Gulf	49,890	144,507	43,733	190,903	-	-	93,623	335,410
Pacific Coast	2,546	3,955	22,391	18,886	-	-	24,938	22,841
Other		_	2,051	12,210			2,051	12,210
Total	62,022	192,095	72,880	233,002			134,902	425,097
Squid:								
Atlantic	2,014	2,938	39,176	35,385	-	- 1	41,191	38,323
Pacific	32,356	8,075	98	4	-	~	32,455	8,079
Other shellfish	61,921	95,479	4,085	15,749		-	66,006	111,228
Total shell-	i di Santa d			facility and	with the look in			
fish et al	377,601	932,530	290,215	666,978	2	32	667,818	1,599,540
Grand total,		: :						
1993	1,883,218	1,610,297	2,866,727	1,831,284	214,099	225,234	4,964,044	3,666,815
Grand total,					a yeşa il ye.			
1992 (5)	1,590,013	1,643,528	2,801,353	1,996,476	251,209	243,455	4,642,575	3,883,459

⁽¹⁾ Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oyster and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance from shore for Texas landings data collected by Texas Parks and Wildlife Department.

- (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.
- (3) Less than 1 metric ton or \$500.
- (4) Data are confidential and included with unclassified shellfish.
- (5) For individual species breakout see "Fisheries of the United States, 1992" pages 6-9.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL LANDINGS

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1983 - 1992

	ESTIMATED						
SPECIES		1983		1984			
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	
Finfish:		10.000		00 500	10 701	45.045	
Baitfish	22,046	10,000	44,000	23,598	10,704 69,970	47,045	
Salmon	137,250 1,836	62,256 833	83,860 2,548	154,255 2,675	1,213	106,899 3,414	
Trout	48,400	21,954	50,000	49,940	22,653	54,435	
Shellfish:							
Clams	1,680	762	6,368	2,088	947	6,670	
Crawfish	69,498	31,524	32,664	66,280	30,064	27,936	
Mussels Oysters	738 19,416	335 8,807	340 32,034	782 25,365	355 11,505	309 47,906	
Shrimp (FW)	275	125	1,500	317	11,303	1,698	
Shrimp (SW)	255	116	510	528	239	874	
Miscellaneous	7,000	3,175	7,000	9,900	4,491	9,900	
Totals	308, 394	139,887	260,824	335,728	152 , 285	307,086	
SPECIES		1985			1986		
	Thousand	Metric	Thousand	Thousand	Metric	Thousand	
	pounds	tons	dollars	pounds	tons	dollars	
Finfish:							
Baitfish	24,807	11,252	51,280	25,807	11,706	51,522	
Catfish	191,616 3,921	86,916	138,922	213,756 2,878	96,959 1,305	142,789 4,399	
Salmon	50,600	1,779 22,952	5,465 55,154	51,000	23,133	55,590	
Shellfish:							
Clams	1,999	907	4,698	2,564	1,163	8,173	
Crawfish	65,011	29,489	29,350	69,834	31,676	35,009	
Mussels	1,210 21,906	549 9,936	642 38,882	1,175 24,475	533 11,102	1,032 49,666	
Shrimp (FW)	21,300	121	1,541	178	81	893	
Shrimp (SW)	440	200	1,566	1,354	614	1,687	
Miscellaneous	14,000	6,350	20,000	15,500	7,031	21,700	
Totals	375,777	170,451	347,500	408,521	185,304	372,460	
SPECIES		1987			1988		
	Thousand	Metric	Thousand	Thousand	Metric	Thousand	
Finfish:	pounds	tons	<u>dollars</u>	pounds	tons	dollars	
Baitfish	26,000	11,794	71,500	26,400	11,975	71,000	
Catfish	280,496	127,232	173,347	295,109	133,861	225,463	
Salmon	4,024	1,825	7,462	6,777	3,074	20,647	
Trout	56,247	25,513	57,556	56,032	25,416	57,927	
Shellfish:	2 400	1 002	10 211	0 100	065	11 200	
Clams	2,409 70,000	1,093 31,752	10,311 29,400	2,128 65,848	965 29,868	11,320 24,364	
Mussels	1,164	528	1,024	1,064	483	1,130	
Oysters	23,926	10,853	. 49,549	24,398	11,067	58,900	
Shrimp (FW)	200	91	1,250	286	130	1,922	
Shrimp (SW) Miscellaneous	2,656 17,050	1,205	3,408	2,200	998	7,609	
1		7,734	32,285	20,000	9,072	40,000	
Totals	484,172	219,619	437,092	500,242	226,909	520,282	

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1983 - 1992

SPECIES		1989		1990			
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	
Finfish:							
Baitfish	24,005	10,889	62,489	21,610	9,802	53,978	
Catfish	341,900	155,085	245,142	360,435	163,492	273,210	
Salmon	8,504	3,857	23,742	9,069	4,114	26,341	
Trout	55,528	25,187	60,041	56,816	25,772	64,640	
Shellfish:							
Clams	2,370	1,075	12,721	3,680	1,669	13,486	
Crawfish	66,000	29,937	20,460	71,000	32,205	34,000	
Mussels	618	280	1,136	607	275	1,173	
Oysters	22,255	10,095	58,082	22,192	10,066	77,949	
Shrimp (FW)	350	159	2,537	406	184	2,407	
Shrimp (SW)	1,500	680	7,551	1,984	900	7,937	
Miscellaneous	25,000	11,340	45,600	24,732	11,218	99,991	
Totals	548,030	248,584	539,501	572,531	259,697	655,112	
SPECIES		1991			1992		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	
Finfish:							
Baitfish	21,182	9,608	55,948	20,618	9,352	61,183	
Catfish	390,870	177,297	246,639	457,367	207,460	273,506	
Salmon Trout	16,753 59,422	7,599 26,954	44,156 59,142	23,937 56,264	10,858 25,521	75,193 53,942	
Shellfish:	33,422	20,334	33,142	30,204	23,321	33,942	
Clams	3,784	1,716	11,133	4,282	1,942	11,539	
Crawfish	60,585	27,481	33,285	63,032	28,591	34,860	
Mussels	210	95	947	282	128	1,162	
Oysters	20,632	9,359	63,463	23,986	10,880	82,432	
Shrimp (FW)	406	184	2,407	324	147	1,728	
Shrimp (SW)	3,527	1,600	14,110	4,409	2,000	17,637	
Miscellaneous	26,735	12,127	104,998	36,681	16,638	111,005	
Totals	604,106	274,021	636,228	691,182	313,518	724, 187	

NOTE: -- Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Only pen-reared salmon aquaculture production is reported. Weights and values usually represent final sales of products to processors and dealers. Shrimp (freshwater) are primarily Macrobrachium rosenbergii and shrimp (saltwater) are primarily Pacific white shrimp (Penaeus vannamei). Miscellaneous includes ornamental fish, alligators, algae, aquatic plants, hybrid striped bass, tilapia, and others.

Source: -- Fisheries Statistics Division, F/RE1, NMFS.

COMMERCIAL LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1992

Species	Puerto	Rico	Guam		
<u>Fish</u>	Pounds	Dollars	Pounds	Dollars	
Amberjack	932	429	-	-	
Ballyhoo	25,109	27,369	-	-	
Barracuda	10,012	13,016	1,979	4,013	
Crevalle	28,276	35,911	1,594	3,498	
Dolphinfish	85,260	136,416	72,796	127,104	
Goatfish	7,480	12,641	(1)	(1)	
Groupers	124,461	219,545	799	1,954	
Grunts	118,424	160,989	- 1	-	
Hogfish	21,218	40,314	- [-	
Mackerel, king and cero.	69,944	119,604	-	-	
Marlin	5,098	6,882	37,882	33,488	
Mojarra	19,898	27,459	-	-	
Mullet (black or silver)	25,925	31,110	119	332	
Parrotfish	92,136	124,384	2,427	7,114	
Reef fish	- 1	-	13,510	37,079	
Sailfish	-	-	1,059	1,436	
Scup or porgy Sharks, other	10,051 35,447	13,770 48,562			
Snappers:					
Lane	91,055	169,362	-	-	
Mutton	32,538	62,473	- 1	-	
Silk	208,085	476,515	- (-	
Yellowtail	149,121	275,874	-]	-	
Other	51,623	98,084	3,318	10,627	
Total snappers	532,422	1,082,308	3,318	10,627	
Snook	28,982	41,154	- 1	-	
Spanish sardine	18,392	20,783	- }	_	
Squirrelfish	6,040	7,490	121	295	
Tarpon	3,175	2,477	-	-	
Triggerfish	27,715	39,078	- 1	-	
Trunkfish (boxfish)	40,066	61,301		<u> </u>	
Tuna:					
Skipjack	~	-	40,091	44,314	
Yellowfin	- }	-	74,387	150,729	
Unclassified	70,026	89,633	2,843	5,086	
Total tuna	70,026	89,633	117,321	200,129	
Wahoo	-	_	63,956	122,412	
Other marine finfishes	369,460	382,898	7,361	20,308	
Freshwater fish, other	-	-	22	68	
Total, fish	1,775,949	2,745,523	324,264	569,857	
Shellfish, et al					
l	ĺ	1	1		
Crabs:					
Blue, hard	2,640	21,410	-	-	
!	2,640	21,410	66	72	

COMMERCIAL LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1992

Species	Puerto	Rico	Guar	Guam		
Shellfish, et al	Pounds	Dollars	Pounds	Dollars		
Lobster, spiny	160,651	783,977	146	578		
Conch (snail) meats	90,947	200,993	-	-		
Oysters	202	760	_	-		
Squid	12,754	29,844	=	_		
Other shellfish	1,064	3,426	139	340		
Total, shellfish et al	268,258	1,040,410	351	990		
Grand total	2,044,207	3,785,933	324,615	570,857		
Species	American	Samoa	Northern Ma Island			
Fish	Pounds	Dollars	Pounds	Dollars		
Barracuda	_	_	172	181		
Crevalle	2,251	4,110	337	912		
Dolphinfish	2,260	5,567	26,244	55,724		
Goatfish]	663	1446		
Groupers	3,016	5,213	1,773	5,312		
Marlin	504	1,150	6,602	7,432		
Mullet (black or silver)	2,822	4,903	61	122		
Parrotfish	8,770	14,085	9,553	26,247		
Reef fish	18,442	30,600	158,708	313,214		
Sailfish	10,442]	127	278		
Snappers, Other	21,053	50,799	607	915		
Squirrelfish	1,671	2,945	292	594		
Tuna:				****		
Skipjack	5,924	8,945	82,145	146,430		
Yellowfin	21,515	51,597	25,615	59,499		
Unclassified	21,313	581	5,800	10,554		
Total tuna	27,730	61,123	113,560	216,483		
Wahoo	6,129	5,582	17,140	38,560		
Other marine finfishes	17,351	31,418	42,236	73,458		
Total, fish	111,999	217,495	378,075	740,878		
Shellfish, et al						
Clams	1,242	5,161		-		
Lobster, spiny	4,294	15,274	2,780	10,804		
Sea urchin	176	537	-	-		
Other shellfish	856	2,351	472	1,369		
Total, shellfish et al	6,568	23,323	3,252	12,173		
Grand total	118,567	240,818	381,327	753,051		

⁽¹⁾ Less than 50 1b or \$50.

NOTE: -- Data in this table are preliminary.

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HISTORICAL FISHERY STATISTICS

TOTAL LANDINGS OF SQUID BY REGION, 1879-1993 (1)

HISTORICAL FISHERY STATISTICS

TOTAL LANDINGS OF SQUID BY REGION, 1879-1993 (1)

			SQUID BT NE		993 (1)		
YEAR	NEW ENGLAND		MIDD		CHESAPEAKE		
				ATLANTIC			
	<u>Thousand</u> <u>pounds</u>	Thousand dollars	Thousand	<u>Thousand</u> <u>dollars</u>	Thousand	Thousand dollars	
	_		pounds		pounds		
1950	1,403	57	928	58	104	8	
1951	4,020	147	1,491	122	84	6	
1952	814	72	1,162	94	89	5	
1953	4,499	211	966	62	154	8	
1954	2,633	82	891	65	95	5	
1955	2,605	101	1,387	69	143	8	
1956	1,907	81	1,022	81	118	7	
1957	4,446	138	1,413	93	153	9	
1958	2,569	108	1,621	91	143	5	
1959	2,356	137	1,092	80	196	9	
1960	2,089	160	1,211	80	302	23	
1961	1,221	105	1,766	127	349	18	
1962	2,479	160	2,000	116	255	19	
1963	2,682	154	1,668	110	292	16	
1964	556	58	1,384	96	235	13	
1965	840	81	1,427	99	255	13	
1966	523	54	1,657	141	426	22	
1967	1,819	101	1,392	91	584	24	
1968	1,842	120	1,379	96	445	20	
1969	1,929	202	906	91	389	20	
1970	1,095	159	756	94	432	27	
1971	1,768	220	516	94	421	40	
1972	1,446	220	1,176	177	266	30	
1973	2,567	508	1,122	232	173	24	
1974	2,841	532	2,251	415	233	40	
1975	2,637	4.61	1,511	308	142	24	
1976	6,246	1,130	1,983	422	152	24	
1977	4,501	1,018	1,169	498	88	23	
1978	2,100	673	1,338	683	141	45	
1979	9,767	2,929	2,358	939	519	175	
1980	5,992	1,860	3,232	1,175	385	85	
1981	3,729	1,225	2,206	1,095	386	101	
1982	4,836	1,665	7,800	1,823	3,628	528	
1983	19,343	6,099	7,810	2,342	6,144	1,571	
1984	13,187	3,238	12,992	3,085	4,773	783	
1985	15,034	4,183	8,037	2,511	2,356	341	
1986	19,036	6,115	14,801	4,088	1,347	255	
1987	17,947	7,194	19,686	5,052	799	158	
1988	27,064	10,439	17,288	5,226	1,808	381	
1989	47,635	19,812	18,092	5,729	1,772	345	
1990	36,099	12,603	21,066	7,955	2,123	377	
1991	41,934	17,216	26,415	12,386	2,665	775	
1992	45,174	19,653	35,479	13,826	582	210	
1993	46,877	21,551	42,740	16,449	753	239	

HISTORICAL FISHERY STATISTICS

TOTAL LANDINGS OF SQUID BY REGION, 1879-1993 (1)

YEAR	SOUT	H H			ATLANTIC	COAST,
	ATLAN	ATLANTIC GULF TOTAL			3	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1879	(2)	(2)	(2)	(2)	(2)	(2)
1880	_	_	_ [_ [(2)	(2)
1887	_	-	-	-	511	5
1888	- 1	-]	-	-	486	5
1889	_	_	-	-	607	6
1890	- (2)	- (2)	- 1	- 1	39 41	2 2
1891 1892	(2) (2)	(2) (2)	(2) (2)	(2) (2)	(2)	(2)
1895	(2)	(2)	(2)	(2)	(2)	(2)
1896	(2)	(2)	(2)	(2)	(2)	(2)
1897	- 1	-	_	-	151	3
1998	(2)	(2)	(2)	(2)	1,205	16
1899	(2)	(2)	(2)	(2)	(2)	(2)
1901	(2)	(2)	(2)	(2)	199 5,497	. 29
1904	(2)	(2)	(2)	(2)	174	. 29
1905	(2)	(2)	(2)	(2)	945	13
1908	\'	(2)	-	-	2,452	38
1909	(2)	(2)	(2)	(2)	(2)	(2)
1915	(2)	(2)	(2)	(2)	(2)	(2)
1918	~	-	1	(3)	1	(3)
1919	(2)	(2)	(2)	(2)	6,517	128
1920	(2)	(2)	(2)	(2)	42	1
1921	(2)	(2)	(2)	(2)	764	38
1922	(2)	(2)	(2) 6	(2)	(2) 6	(2) 1
1924	(2)	(2)	(2)	1 (2)	3,077	76
1925	(2)	(2)	(2)	(2)	454	26
1926	(2)	(2)	(2)	(2)	1,576	100
1927	2	(3)	- 1	_	2	(3)
1928	-	-	-	-	7,927	157
1929	2	(2)	-	-	6,733	170
1930	-	-	-	-	7,505	175
1931	9		-	- 1	5,415	116
1932	9 -	(3)	(2)	(2)	5,643 2,012	83 38
1934	1 -	_	(2)	(2)	114	36 4
1935	(3)	(3)	(2)	(2)	6,256	129
1936	-	- 1		\	122	4
1937	-	-	-	-	5,833	111
1938	-	-	-	-	4,563	66
1939	(3)	(3)	18	(3)	6,160	123
1940 1941	(2)	(2)	(2)	(3) (2)	4,677 283	76 4
1942	(2)	(2)	(2)	(2)	2,002	103
1943	(2)	(2)	(2)	(2)	2,132	168
1944	(2)	(2)	(2)	(2)	2,021	159
1945	2	(3)	4	(3)	3,048	207
1946	(2)	(2)	(2)	(2)	1,186	66
1947	(2)	(2)	(2)	(2)	2,482	163
1948	(2)	(2)	(2)	(2)	4,555	349
1949	(2)	(2)	9	(3)	6,933	225

HISTORICAL FISHERY STATISTICS

TOTAL LANDINGS OF SQUID BY REGION, 1879-1993 (1)

			COID DT NE	<u> </u>		·
YEAR	SOUT	SOUTH			ATLANTIC	COAST,
1	ATLAN	ATLANTIC GULF TOTAL		GULF		AL
	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand
	pounds	<u>dollars</u>	pounds	dollars	pounds	dollars
1950	1	(3)	5	(3)	2,441	123
1951	(3)	(3)	3	(3)	5,598	275
1952	(3)	(3)	2	(3)	2,067	171
1953		(2)	8	1	5,627	282
	(3)	(3)	- 1	i		
1954	(3)	(3)	10	1	3,629	153
1955	(3)	(3)	9	2	4,144	180
1956	4	(3)	8	1	3,059	170
1957	13	1	14	1	6,039	242
1958	8	1	12	1	4,353	206
1959	11	1	19	2	3,674	229
1960	15	1	32	2	3,649	266
1961	30	3	31	2	3,397	255
1962	26	2	59	5	4,819	302
1963	31	2	73	7	4,746	289
1964	44	5	47	4	2,266	176
1965	35	4	54	6	2,611	203
1966	35	4	61	5	2,702	226
1967	41	4	47	4	3,883	224
1968	46	3	87	9	3,799	248
1969	29	2	58	9	3,311	324
		_		-	-,	
1970	27	2	55	6	2,365	288
1971	20	3	50	8	2,775	365
1972	23	2	22	2	2,933	431
1973	45	6	46	6	3,953	776
1974	103	15	66	13	5,494	1,015
1975	92	13	43	9	4,425	815
1976	52	9	73	15	8,506	1,600
1977	45	8	81	21	5,884	1,568
1978	148	53	70	17	3,797	1,471
1979	591	197	45	11	13,280	4,251
1980	235	57	59	15	9,903	3,192
1981	182	56	87	21	6,590	2,498
1982	152	51	73	19	16,489	4,086
1983	255	84	71	21	33,623	10,117
1984	701	147	104	31	31,757	7,284
1985	669	161	118	39	26,214	7,235
1986	353	104	164	68	35,701	10,630
1987	158	48	151	52	38,741	12,504
1988	474	100	156	54	46,790	16,200
1989	880	207	114	38	68,493	26,131
1990	631	116	120	42	60,039	21,093
1991	325	69	76	31	71,415	30,477
1992	269	53	154	60	81,658	33,802
1993	330	42	109	42	90,809	38,323

HISTORICAL FISHERY STATISTICS

TOTAL LANDINGS OF SQUID BY REGION, 1879-1993 (1)

	TOTAL LA	NDINGS OF	SQUID BY RE	GION, 1879-1	993 (1)	
YEAR	PACI				GRA	
	TOT	AL	HAWAII		TOT	AL
	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand
	pounds	<u>dollars</u>	pounds	<u>dollars</u>	<u>pounds</u>	dollars
1879	(2)	(2)	(2)	(2)	(2)	(2)
1880	(2)	(2)	(2)	(2)	(2)	(2)
1887	(2)	(2)	(2)	(2)	511	5
1888	(2)	(2)	(2) (2)	(2) (2)	486 607	5
1889	(2)	(2)			39	2
1890 1891	(2) (2)	(2) (2)	(2) (2)	(2) (2)	41	2
1892	(2)	(2)	(2)	(2)	(2)	(2)
1895	30	(2)	(2)	(2)	30	(3)
1896	(2)	(2)	(2)	(2)	(2)	(2)
1897	(2)	(2)	(2)	(2)	151	3
1998	(2)	(2)	(2)	(2)	1,205	16
1899	1,869	19	(2)	(2)	1,869	19
1901	(2)	(2)	(2)	(2)	199	6
1902	(2)	(2)	(2) (2)	(2) (2)	5,497 928	29 14
1904	754 (2)	10 (2)	(2)	(2)	945	13
1908	110	(2)	(2)	(2)	2,562	42
1909	(2)	(2)	(2)	(2)	(2)	(2)
1915	6,226	33	(2)	(2)	6,226	33
1918	362	(2)	(2)	(2)	363	(2)
1919	3,689	(2)	(2)	(2)	10,206	128
1,000			(0)	(0)		1
1920	508	(2)	(2)	(2) (2)	550 1,197	38
1921	433 209	(2) 9	(2) (2)	(2)	209	9
1923	1,180	8	(2)	(2)	1,186	9
1924	6,831	409	(2)	(2)	9,908	485
1925	1,891	119	(2)	(2)	2,345	145
1926	3,136	46	(2)	(2)	4,712	146
1927	6,014	56	(2)	(2)	6,016	56
1928	1,352	41	(2)	(2)	9,279	198
1929	4,660	76	(2)	(2)	11,393	246
1930	10,980	118	(2)	(2)	18,485	293
1931	1,744	14	(2)	(2)	7,159	130 113
1932	4,230 825	30 14	(2) (2)	(2) (2)	9,873 2,837	52
1934	1,536	32	(2)	(2)	1,650	36
1935	835	24	(2)	(2)	7,091	153
1936	962	25	(2)	(2)	1,084	29
1937	503	15	(2)	(2)	6,336	126
1938	1,615	37	(2)	(2)	6,178	103
1939	1,198	24	(2)	(2)	7,358	147
1940	1,863	32	(2)	(2)	6,540	108
1941	1,640	35	(2)	(2)	1,923	39
1942	961	33	(2)	(2)	2,963	136
1943	9,166	265 299	(2)	(2)	11,298 12,960	433 458
1944	15,228	426	(2)	(2)	18,276	633
1946	38,025	1,215	10	4	39,221	1,285
1947	14,551	392	21	12	17,054	567
1948	19,258	518			23,813	867
1949	6,860	184	-	-	13,793	409

HISTORICAL FISHERY STATISTICS

TOTAL LANDINGS OF SQUID BY REGION, 1879-1993 (1)

VEND		ANDINGS OF	OGOID DI TI	Laioi, 1073-			
YEAR	PACI TOT		НАЖА	T T	GRAND TOTAL		
	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand	
	pounds	dollars	pounds	dollars	pounds	dollars	
1950	5,996	157	_	-	8,437	280	
1951	12,383	336	5	2	17,986	613	
1952	3,672	171	(3)	(3)	5,739	342	
1953	8,917	206	2	1	14,546	489	
1954	8,156	177	12	5	11,797	335	
1955	14,272	234	3	2	18,419	416	
1956	19,484	337	6	3	22,549	510	
1957	12,449	208	10	5	18,498	455	
1958	7,475	148	25	6	11,853	360	
1959	19,694	345	5	2	23,373	576	
1960	2,562	72	5	2	6,216	340	
1961	10,286	280	8	4	13,691	539	
1962	9,382	169	12	4	14,213	475	
1963	11,562	240	6	2	16,314	531	
1964	16,435	332	9	3	18,710	511	
1965	18,620	308	3	1	21,234	512	
1966	19,026	451	7	3	21,735	680	
1967	17,010	399	3	1	20,896	624	
1968	24,934	553	3	2	28,736	803	
1969	20,779	555	3	2	24,093	881	
1970	24,591	667	6	3	26,962	958	
1971	31,521	761	14	6	34,310	1,132	
1972	20,159	534	2	2	23,094	967	
1973	12,129	451	11	7	16,093	1,234	
1974	28,906	1,437	3	3	34,403	2,455	
1975	20,339	751	9	6	24,773	1,572	
1976	23,662	854	3	4	32,171	2,458	
1977	28,245	1,481	5	6	34,134	3,055	
1978	37,829 44,055	2,893 4,162	_	_	41,626 57,335	4,364	
	·	·	-			8,413	
1980	39,917	3,008	22	17	49,842	6,217	
1981	51,842	5,023	17	14	58,449	7,535	
1982	36,035	3,538	20	16	52,544	7,640	
1983	4,407	869	9	10	38,039	10,996	
1984	2,219	518	-	-	33,976	7,802	
1985	24,407	4,080	-	-	50,621	11,315	
1986	46,946	4,849	-	-	82,647	15,479	
1987	44,066	4,167	-	-	82,807	16,671	
1988	82,084	7,798	-	-	128,874	23,998	
1989	90,250	7,241	-	-	158,743	33,372	
1990	62,718	4,927	-	-	122,757	26,020	
1991	83,163	7,330	-	-	154,578	37,807	
1992	30,415	2,653	21	45	112,094	36,500	
1993	71,548	8,074	2	5	162,359	46,402	

⁽¹⁾ Statistics represent the latest data available and therefore may not agree with previous published information.

⁽²⁾ Data not available. (3) Less than 500 lb or \$500.

DATA COLLECTION. While data on commercial fisheries have been collected for many years, detailed statistical information on marine recreational fishing is also required to support a variety of fishery management and development purposes. include the objectives of the Magnuson Fishery Conservation and Management Act, Public Law 94-265, as amended. However, prior to 1979, the lack of a continuous and systematic collection of marine recreational fishery data prevented the accomplishment of these goals. Therefore, NMFS began a new comprehensive Marine Recreational Fishery Statistical Survey (MRFSS) in 1979. collected through the MRFSS show that recreational fisheries can have a tremendous impact on fish stocks. For several important management species recreational landings surpass commercial landings. Surveys have been conducted in the following areas and years:

> Atlantic and Guif, 1979 through 1993; Pacific, mid-1979 through 1989, 1993; Western Pacific, 1979 through 1981; Caribbean, 1979, 1981.

Preliminary estimates of catch and trips from the MRFSS for the Atlantic/Gulf and Pacific coasts for 1993 are presented in the following tables. Summary graphs for 1983-1993 (Atlantic/Gulf) and 1981-1993 (Pacific) catch and trips are also shown. The survey is being conducted in 1994 along the coast of the entire continental United States except the states of Washington and Texas.

The MRFSS data collection consists of an intercept survey of anglers in the field and an independent telephone survey of coastal county households. These independent components, along with census information, are combined to produce estimates of recreational catch, fishing effort, and participation. Estimates are generated by subregion, state, species, mode and area of fishing. In addition, information on catch rates and measurements of fish lengths and weights are obtained.

The MRFSS is only one of several NMFS programs which collect data on recreational fisheries. Specialized surveys which target important management species are also conducted. A major effort to collect economic data on recreational fisheries in the Northeast region is planned for 1994.

<u>DATA TABLES</u>. The total number of fish caught is presented for twenty commonly caught species groups on the Atlantic, Gulf, and Pacific coasts. Total number caught includes those fish which were brought ashore in whole form and were available for identification, weighing, and measuring as well as those fish which were not available for identification. This latter category includes those fish which were used for balt, discarded, filleted or released alive. Each species group may contain one or more species, genera, or families.

Total catch is distributed by subregion, fishing area and mode. The fishing areas are; ocean 3 miles or less from land, ocean more than 3 miles from land, and inland (sounds, rivers, bays). However, ocean data for the Gulf coast of Florida are reported as 10 miles or less from land and more than 10 miles from land.

The fishing modes are; shore (man-made structures and beach/bank from previous surveys), party/charter boat, and private/rental boat. In 1993 partyboats were not sampled by the MRFSS in the South Atlantic and Gulf subregions; therefore estimated catches are given for charterboats only for these subregions.

Trip estimates and participation estimates are presented for coastal residents (generally residing within 25 miles of the coast), non-coastal residents, and non-residents fishing outside of their home state. Estimated number of trips are also shown by fishing mode.

The 1993 survey did not include the states of Texas or Washington. Sampling was not conducted during January/February in the Atlantic coast states north of Florida, or in November/December in states north of Massachusetts. More detailed information will be available in a separate MRFSS report to be published later.

PRELIMINARY 1993 MRFSS DATA. The U.S. marine recreational finfish catch in 1993 (excluding Alaska, Hawaii, Washington, Texas, and Pacific coast salmon) was an estimated 293.0 million fish. Approximately one-half of these fish were released alive. The total marine recreational finfish harvest (excluding fish released alive) was an estimated 146.0 million fish weighing an estimated 194.6 million pounds. These fish were taken on an estimated 53.4 million fishing trips. Seventy-eight percent of these trips were taken by residents of the state the fishing trip was made from.

The Atlantic and Gulf coasts accounted for over 90 percent of the total U.S. marine recreational finfish catch by number and for 88 percent of the fishing trips.

The private/rental boat mode accounted for 57 percent of the total U.S. marine recreational finfish catch by number while shore and party/charter modes made up 29 and 14 percent, respectively.

Atlantic and Gulf. Commonly caught species in 1993 were herrings (primarily used for bait), spotted seatrout, summer flounder, Atlantic croaker, spot, pinfish, and black sea bass. Top-ranked non-bait species by subregion were scup in the North Atlantic, summer flounder in the Mid-Atlantic, spot in the South Atlantic, and spotted seatrout in the Gulf of Mexico. By subregion the Gulf of Mexico accounted for the highest numbers of fish caught (51%) followed by the Mid-Atlantic (27%).

Approximately one-third of the recreational fishing trips were made in the Gulf of Mexico and another one-third in the South Atlantic. The Mid-Atlantic and North Atlantic combined made up the final one-third of the total trips taken. Fifty-six percent of all Atlantic and Gulf trips were made from boat modes while 44 percent were shore based trips.

The most commonly caught non-balt species in 1993 by mode were spot from shore mode, red snapper from charterboat mode (South Atlantic and Gulf only), black sea bass from party/charterboat mode (North and Mid- Atlantic subregions only), and spotted seatrout from private/rental boat mode. Private/rental boat trips accounted for 58 percent of all fish caught recreationally on the Atlantic and Gulf coasts.

Seventeen percent of the total marine recreational catch on the Atlantic and Gulf coasts came from the EEZ. The most commonly caught species in federally managed waters were red snapper, black sea bass, Atlantic cod, and bluefish.

Pacific. Commonly caught species in 1993 were Pacific mackerel, kelp bass, white croaker, blue rockfish, and surf smelt. Top-ranked species by subregion were Pacific mackerel in Southern California, surf smelt in Northern California, and black rockfish in Oregon. By subregion Southern California accounted for the highest numbers of fish caught (63%) followed by Northern California (33%) and Oregon (4%).

Sixty-three percent of the Pacific coast recreational fishing trips (excluding Washington and salmon trips) were made in Southern California. Nearly two-thirds of all Pacific coast trips were taken from boat modes while 35 percent were from the shore.

The top ranked species in 1993 by mode were surf smelt from the shore mode, kelp bass from the party/charterboat mode, and Pacific mackerel from the private/rental boat mode. Private/rental boat trips accounted for 51 percent of all fish caught recreationally on the Pacific coast.

Eighteen percent of the total marine recreational catch on the Pacific coast came from the EEZ. The most commonly caught Pacific coast species in federally managed waters for 1993 were Pacific mackerel, kelp bass, and barred sand bass. Two-thirds of the Pacific coast marine recreational catch came from the ocean within three miles from shore (state waters).

ESTIMATED NUMBER OF PARTICIPANTS IN MARINE RECREATIONAL FISHING BY SUBREGION AND AREA OF RESIDENCE: ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1993 - DECEMBER 1993

Subregion	Coastal resident participants	Non-coastal resident participants	Out of State participants
North Atlantic	502 1,550 1,619 1,459	7housands 65 60 312 264	328 773 1,671 1,620
Total	5,130	701	4,392
Southern California Northern California Oregon	806 431 120	17 1 8	166 115 32
Total	1,357	26	313
Grand Total	6, 487	727	4,705

Note: --Estimates for the Gulf of Mexico exclude Texas. Pacific coast estimates exclude Washington. "Out of State" subregion and region totals are over-estimates as one angler can be counted as "Out of State" for more than one state.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL ANGLERS BY SPECIES GROUP AND SUBREGION:

ATLANTIC AND GULF COASTS, JANUARY 1993 - DECEMBER 1993

Species	North	Mid-	South	Gulf of	Total				
group	Atlantic	Atlantic	Atlantic	Mexico					
Thousands									
Herrings	371	274	3,568	23,750	27,963				
Saltwater catfishes	*	*	2,044	9,115	11,160				
Black sea bass	40	6,783	1,363	2,078	10,264				
Bluefish	1,453	3,516	2,535	332	7,837				
Red snapper	* 1	* [103	5,119	5,222				
Scup	2,807	2,110	- 1	*	4,928				
Pinfish	*	-	2,505	8,674	11,184				
Sheepshead	*	-	1,151	3,763	4,915				
Spotted seatrout	*	137	2,131	15,651	17,919				
Weakfish	_	1,236	323	-	1,561				
Sand seatrout	*	*	*	3,520	3,520				
Spot	*	5,798	4,629	825	11,252				
Kingfishes	*	683	1,513	743	2,939				
Atlantic croaker	*	9,853	2,022	3,293	15,168				
Red drum	*	48	1,145	4,993	6,186				
Mullets	40	823	1,218	1,164	3,245				
King mackerel	*	-	558	666	1,237				
Summer flounder	343	15,984	351	*	16,678				
Winter flounder	483	1,990	*	*	2,473				
Atlantic cod	1,686	411	*	*	2,097				
Striped bass	1,220	2,475	-	_	3,719				
Other fishes	6,311	20,243	16,890	51,764	95,207				
Total	14,756	72,384	44,071	135,461	266, 672				

Note: -- A dash (-) denotes an estimate of less than thirty thousand which is included in row and column totals. An asterisk (*) denotes none reported. Figures for the Gulf of Mexico do not include the recreational catch for Texas. Figures for the South Atlantic and Gulf of Mexico do not include catches for partyboats. Row and column totals may not add due to rounding.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL ANGLERS BY SPECIES GROUP AND SUBREGION:

PACIFIC COAST, JANUARY 1993 - DECEMBER 1993

1 //On to Go/to1; o/tito/tit/ 1000 DEGENDER 1000							
Species	Southern	Northern	Oregon	Total			
Group	California	California					
		Thou	sands				
Pacific herrings	-		221	223			
Surf smelt	-	1,498	-	1,498			
Smelt, other	34	_	-	63			
Walleye pollock	-	*	*	1			
Jacksmelt	276	715	-	991			
Kelp bass	2,268	-	*	2,269			
Barred sand bass	1,417	*	*	1,417			
White croaker	1,014	700	*	1,714			
Queenfish	156	-	*	156			
Walleye surfperch	61	117	-	180			
Redtail surfperch	*	43	- 1	52			
Barred surfperch	345	162	*	506			
Pacific bonito	539	*	* 1	539			
Pacific mackerel	3,882	146	_	4,030			
Black rockfish		359	273	658			
Blue rockfish	496	1,000	110	1,606			
Boccacio	142	· · · -	_	157			
Olive rockfish	111	82	*	193			
Rockfishes, other	1,476	1,035	201	2,712			
Other fishes	4,226	2,787	311	7,324			
Total	16,473	8,679	1,136	26,290			

Note: -- A dash (-) denotes an estimate of less than thirty thousand which is included in row and column totals. An asterisk (*) denotes none reported. Row and column totals may not add due to rounding. Figures do not include salmon catches estimated by state recreational surveys. Recreational catches for Washington also not included here.

ESTIMATED NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL ANGLERS BY SPECIES GROUP AND AREA OF FISHING:

ATLANTIC AND GULF COASTS, JANUARY 1993 - DECEMBER 1993

	Ocean					
Species group	3 Miles	Over	10 Miles	Over	Inland	Total
	or less	3 miles	or less	10 Miles		
				sands		
Herrings	2,176	268	1,271	519	23,730	27,963
Saltwater catfishes.	1,842	782	1,260	51	7,225	11,160
Black sea bass	2,421	3,860	1,033	731	2,219	10,264
Bluefish		882	126	_	4,032	7,837
Red snapper	39	4,257	209	681	36	5,222
Scup	881	578	*	*	3,470	4,928
Pinfish	1,282	222	3,139	427	6,114	11,184
Sheepshead	450	118	341	-	3,990	4,915
Spotted seatrout	1,684	222	2,857	78	13,078	17,919
Weakfish	255	89	-	*	1,216	1,561
Sand seatrout	1,179	409	228	*	1,704	3,520
Spot		-	31	*	7,945	11,252
Kingfishes	1,193	71	88	-	1,586	2,939
Atlantic croaker	1,681	507	267	*	12,713	15,168
Red drum		223	312	44	4,786	6,186
Mullets		188	357	*	2,221	3,245
King mackerel	327	338	381	163	-	1,237
Summer flounder	5,466	387	*	*	10,825	16,678
Winter flounder	332	54	*	*	2,087	2,473
Atlantic cod	227	1,805	*	*	65	2,097
Striped bass	909	184	-	*	2,625	3,719
Other fishes	13,050	11,085	22,308	9,956	38,807	95,207
Total	42,742	26,544	34,209	12,676	150,500	266, 672

Note:--"Ocean 10 mi or less" and "ocean over 10 mi" refer only to the Florida Gulf coast where state jurisdiction extends to three marine leagues, approximately ten nautical miles. The total estimate is additive across four areas. A dash (-) denotes an estimate of less than thirty thousand which is included in row and column totals. An asterisk (*) denotes none reported. Row and column totals may not add due to rounding. Figures do not include any recreational catches for Texas or partyboat catches for the South Atlantic and Gulf of Mexico.

ESTIMATED NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL ANGLERS BY SPECIES GROUP AND AREA OF FISHING: PACIFIC COAST, JANUARY 1993 - DECEMBER 1993

	00	ean		
Species group	3 Miles	Over	Inland	All areas
	or less	3 miles		
		Thous		
Pacific herring	-	*	221	223
Surf smelt	1,491	*	-	1,498
Smelts, other	36	*	-	63
Walleye pollock	-	*	*	1
Jacksmelt	405	-	585	991
Kelp bass	1,642	500	127	2,269
Barred sand bass	665	487	265	1,417
White croaker	1,160	167	387	1,714
Queenfish	107	-	44	156
Walleye surfperch	164	-	-	180
Redtail surfperch	52	*	-	52
Barred surfperch	485	*	-	506
Pacific bonito	378	157	-	539
Pacific mackerel	2,368	1,334	328	4,030
Black rockfish	579	62	-	658
Blue rockfish	1,553	52	-	1,606
Boccacio	-	129	-	157
Olive rockfish	178		-	192
Rockfishes, other	2,063	608	41	2,712
Other fishes	4,165	1,198	1,961	7,324
Total	17,516	4,715	4,058	26,289

Note: -- A dash (-) denotes an estimate of less than thirty thousand which is included in row and column totals. An asterisk (*) denotes none reported. Row and column totals may not add due to rounding. Recreational catches for Washington and all salmon catches not included here.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL ANGLERS BY SPECIES GROUP AND FISHING MODE: ATLANTIC AND GULF COASTS, JANUARY 1993 - DECEMBER 1993.

Species	Shore	Charter	Party/	Private/	Total
Group		Boats	Charter Boats	Rental Boats	
<u> </u>			Thousands		
Herrings	9,623	398		17,940	27,963
Saltwater catfishes	3,392	582	*	7,185	11,160
Black sea bass	645	326	4,124	5,169	10,264
Bluefish	2,839	90	1,001	3,906	7,837
Red snapper	· - 1	4,007	*	1,208	5,222
Scup	339	_	1,326	3,263	4,928
Pinfish	5,673	283	*	5,229	11,184
Sheepshead	1,721	70	*	3,124	4,915
Spotted seatrout	1,996	838	*	15,085	17,919
Weakfish	148	-	156	1,254	1,561
Sand seatrout	1,226	152	*	2,141	3,520
Spot	6,926	_	404	3,899	11,252
Kingfishes	2,000		_	931	2,939
Atlantic croaker	4,678	-	652	9,828	15,168
Red drum	919	337	0	4,929	6,186
Mullets	1,923	*	0	1,321	3,245
King mackerel	71	737	0	429	1,237
Summer flounder	1,237	-	2,415	13,026	16,678
Winter flounder	537	*	396	1,540	2,473
Atlantic cod	*	*	1,430	668	2,097
Striped bass	908	*	320	2,491	3,719
Other fishes	30,431	11,140	3,398	50,239	95,207
Total	77,240	19,005	15,624	154,804	266, 672

Note: -- A dash (-) denotes an estimate of less than thirty thousand which is included in row and column totals. An asterisk (*) denotes none reported. Figures for Charter Boats include only catches in the South Atlantic and Gulf of Mexico excluding Texas. Figures for partyboats are only for the North Atlantic and Mid-Atlantic subregions. Row and colmun totals may not add due to rounding.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL ANGLERS BY SPECIES GROUP AND FISHING MODE: PACIFIC COAST, JANUARY 1993 - DECEMBER 1993

Species Group	Shore	Party/ Charter Boats	Private/ rental boats	Total
Pacific herrings	218	*	- 1	223
Surf smelt	1,498	*	- 1	1,499
Smelt, other	59	*	- 1	63
Walleye pollock	-	*	* 1	1
Jacksmelt	793	-	197	991
Kelp bass	121	1,283	865	2,269
Barred sand bass	32	673	712	1,417
White croaker	440	160	1,114	1,714
Queenfish	138	-		156
Walleye surfperch	168	*	- !	180.
Redtail surfperch	52	*	*]	52
Barred surfperch	503	*	- 1	506
Pacific bonito	44	236	260	539
Pacific mackerel	462	1,251	2,316	4,030
Black rockfish	_	144	488	658
Blue rockfish	-	228	1,359	1,606
Boccacio	_	84	62	157
Olive rockfish	-	50	141	193
Rockfishes, other	91	633	1,987	2,712
Other fishes	2,127	1,346	3,851	7,324
Total	6,808	6,088	13,394	26,290

Note: -- A dash (-) denotes an estimate of less than thirty thousand which is included in row and column totals. An asterisk (*) denotes none reported. Row and column totals may not add due to rounding. Figures do not include salmon catches estimated by state recreational surveys. Recreational catches for Washington also not included here.

ESTIMATED TOTAL NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL ANGLERS BY SUBREGION AND AREA OF RESIDENCE: ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1993 - DECEMBER 1993

Subregion	Trips by coastal residents	non-coastal resident		All Trips
		Thous	ands	
North Atlantic	3,092	234	1,110	4,436
Mid-Atlantic	9,390	221	2,120	11,731
South Atlantic	10,389	1,009	3,674	15,072
Gulf of Mexico	10,933	547	4,457	15,937
Total	33,804	2,011	11,361	47,176
Southern California	3,582	44	285	3,911
Northern California	1,624	3	274	1,901
Oregon	314	13	52	379
Total	5,520	60	611	6,191
Grand Total	39,324	2,071	11,972	53,367

Note: --Estimates for the Gulf of Mexico exclude Texas. Estimates for the South Atlantic and Gulf of Mexico subregions exclude partyboat trips. Estimates also exclude January/February trips in the North Atlantic subregion and the South Atlantic states north of Florida, as well as November/December trips in the North Atlantic states north of Massachusetts. Pacific coasts estimates do not include salmon fishing trips or Washington trips.

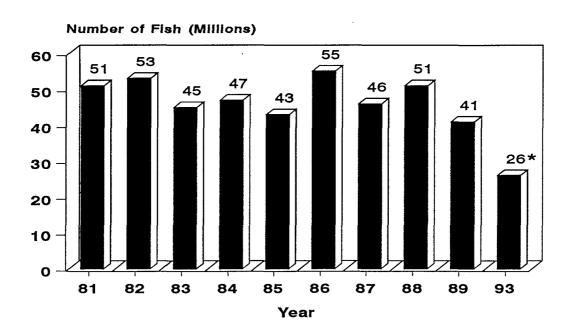
ESTIMATED TOTAL NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL ANGLERS BY SUBREGION AND MODE OF FISHING:

ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1993 - DECEMBER 1993

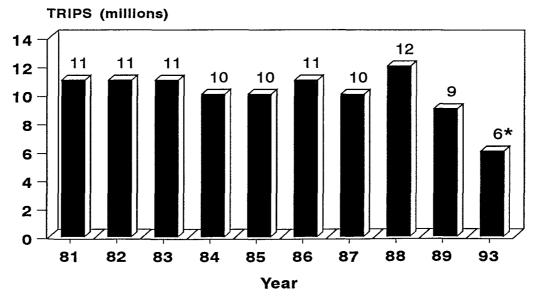
Subregion	Shore	Party/ Charter Boat	Private/ Rental Boat	All Trips
		Thouse	ands	
North Atlantic	2,019	326	2,092	4,437
Mid-Atlantic	3,692	1,665	6,374	11,731
South Atlantic	8,077 6,929	904 1,495	6,092 7,513	15,073 15,937
Total	20,717	4,390	22,071	47,178
Southern California	1,233	1,192	1,486	3,911
Northern California	781	209	910	1,900
Oregon	121	43	215	379
Total	2,135	1,444	2,611	6,190
Grand Total	22,852	5,834	24,682	53,368

Note: --Estimates for the Gulf of Mexico exclude Texas. Estimates for the South Atlantic and Gulf of Mexico subregions exclude partyboat trips. Estimates also exclude January/February trips in the North Atlantic subregion in the South Atlantic states north of Florida, as well as November/December trips in the North Atlantic states north of Massachusetts. Pacific coasts estimates do not include salmon fishing trips or Washington trips.

MARINE RECREATIONAL FISHERIES CATCH PACIFIC COAST, VARIOUS YEARS



MARINE RECREATIONAL FISHING TRIPS PACIFIC COAST, VARIOUS YEARS

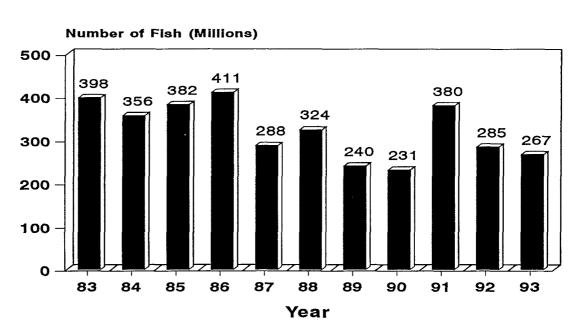


1993 data are preliminary.

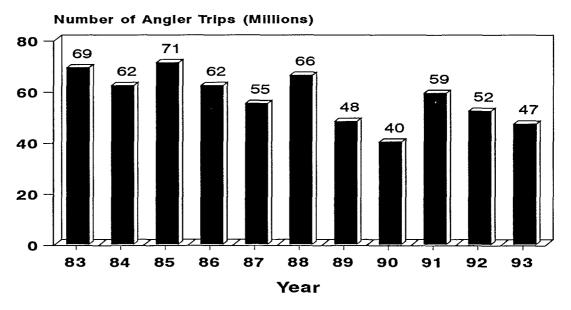
No data available for 1990, 1991, 1992.

* Note: 1993 does not include Washington.

MARINE RECREATIONAL FISHERIES CATCH ATLANTIC AND GULF COASTS, VARIOUS YEARS

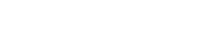


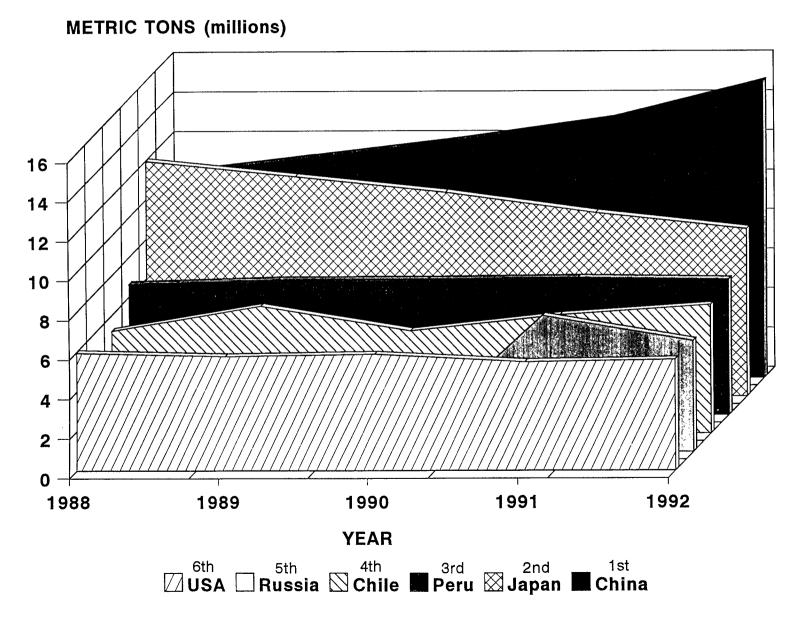
MARINE RECREATIONAL FISHING TRIPS ATLANTIC AND GULF COASTS, VARIOUS YEARS



Note: 1993 data are preliminary.

WORLD COMMERCIAL CATCH BY LEADING COUNTRIES, 1988 - 1992





U.S. AND WORLD COMMERCIAL FISH CATCHES, 1957-92

		commercial c		World commercial catch				
Year	Published by U.S. (excludes	Published	Exvessel	Fresh-		Marine		Grand
	weight of mollusk shells)	by FAO (1)	value	water	Peruvian anchovy	Other (2)	Total	total
		etric tons weight	Billion dollars		<u>- M</u>	llion metri Live weig		
1957	2.2	2.8	0.4	3.9	0.3	27.5	27.8	31.7
1958	2.2	2.7	0.4	4.5	0.8	28.0	28.8	33.3
1959	2.3	2.9	0.4	5.1	2.0	29.8	31.8	36.9
1960	2.2	2.8	0.4	5.6	3.5	31.1	34.6	40.2
1961	2.4	2.9	0.4	5.7	5.3	32.6	37.9	43.6
1962	2.4	3.0	0.4	5.8	7.1	31.9	39.0	44.8
1963	2.2	2.8	0.4	5.9	7.2	33.5	40.7	46.6
1964	2.1	2.6	0.4	6.2	9.8	35.9	45.7	51.9
1965	2.2	2.7	0.4	7.0	7.7	38.5	46.2	53.2
1966	1.9	2.5	0.5	7.3	9.6	40.4	50.0	57.3
1967	1.8	2.4	0.4	7.2	10.5	42.7	53.2	60.4
1968	1.9	2.5	0.5	7.4	11.3	45.2	56.5	63.9
1969	1.9	2.5	0.5	7.6	9.7	45.4	55.1	62.7
1970	2.2	2.8	0.6	8.4	13.1	46.6	59.7	65.6
1971	2.3	2.9	0.7	9.0	11.2	48.3	59.5	66.1
1972	2.2	2.8	0.7	5.7	4.8	53.7	58.5	62.0
1973	2.2	2.8	0.9	5.7	1.7	55.3	57.0	62.7
1974	2.3	2.8	0.9	5.8	4.0	56.7	60.7	66.5
1975	2.2	2,8	1.0	6.2	3.3	56.9	60.2	66.4
1976	2.4	3.0	1.3	5.9	4.3	59.6	63.9	69.8
1977	2.4	3.0	1.5	6.1	0.8	62.0	62.8	68.9
1978	2.7	3.4	1.9	5.8	1.2	63.6	64.8	70.6
1979	2.8	3.5	2.2	5.9	1.4	63.8	65.2	71.1
1980	2.9	3.6	2.2	6.2	0.7	65.1	65.8	72.0
1981	2.7	3.8	2.4	6.6	1.2	67.0	68.2	74.8
1982	2.9	4.0	2.4	8.5	1.8	66.9	68.7	77.2
1983	2.9	4.3	2.4	9.3	0.1	68.2	68.3	77.6
1984	2.9	5.0	2.3	10.0	0.1	73.8	73.9	83.9
1985	2.8	4.9	2.3	10.7	1.0	74.7	75.7	86.4
1986	2.7	5.2	2.8	11.7	4.9	76.2	81.1	92.8
1987	3.1	6.0	3.1	12.7	2.1	79.6	81.7	94.4
1988	3.3	5.9	3.5	13.4	3.6	82.1	85.7	99.1
1989	3.8	5.8	3.2	13.9	5.4	81.0	86.4	100.3
1990	4.3	5.9	3.5	14.7	3.8	79.1	82.9	97.6
1991	4.3	5.5	3.3	14.8	4.0	78.3	82.3	97.1
1992	4.4	5.6	3.7	15.6	5.5	77.0	82.5	98.1

(1) Includes U.S.-flag vessel landings at foreign ports, transfer of catches onto foreign vessels within the U.S. EEZ (joint ventures), and the weight of mollusk shells. (2) Includes diadromous fishes including salmon and other anadromous fishes and catadromous fishes such

Note:—There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1992, data for marine mammals and aquatic plants are excluded. There is a revision in the total world commercial catch back to 1970 as published in FAO Yearbook of Fishery Statistics, Vol. 48 and 50. However, prior to 1974, data on freshwater and marine catches were not revised. Therefore, for the years 1970 to 1973,

data will not add to the grand total.

Source: --Fishery Statistics of the United States; Fisheries of the United States; Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, Rome;

various issues.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1988-92 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)								
Country	1988(1)	1989(1)	1990(1)	1991 (1)	1992			
		<u>T</u> }	nousand metric t	ons				
	2410 no 4410							
China	10,358	11,219	12,095	13,134	15,007			
Japan	11,966	11,173	10,354	9,301	8,460			
Peru	6,641	6,853	6,875	6,949	6,842			
Chile	5,209	6,454	5,195	6,002	6,501			
Russia	· _	· -	· -	6,894	5,611			
United States (2)	5,956	5,778	5,870	5,488	5,602			
India	3,125	3,640	3,794	4,044	4,175			
Indonesia	2,795	2,948	3,044	3,251	3,357			
Thailand	2,642	2,699	2,786	2,967	2,855			
South Korea	2,731	2,840	2,843	2,521	2,695			
Norway	1,839	1,908	1,711	2,095	2,549			
Philippines	2,010	2,098	2,208	2,311	2,271			
Denmark	1,974	1,929	1,518	1,795	1,995			
North Korea (3)	1,700	1,700	1,750	1,700	1,750			
Iceland	1,757	1,502	1,508	1,050	1,577			
Spain (3)	1,593	1,560	1,400	1,320	1,330			
Canada	1,610	1,572	1,624	1,534	1,251			
Mexico			· ·	·	· ·			
VietNam	1,372	1,469 930	1,400	1,453	1,247			
Panaladash	ł l		960	1,020	1,080			
Bangladesh	829 909	843 798	847 75 <i>7</i>	892	966 812			
United Kingdom	888	908		784	812			
France (3)	1		897	800	•			
Burma (3)	704	733	743	769	800			
Brazil (3)	830	850	802	800	790			
Argentina	493	486	555	640	705			
South Africa	1,302	878	537	500	695			
New Zealand	552	567	559	609	679			
Malaysia (3)	612	609	603	620	640			
Italy	579	551	525	561	555			
Pakistan	445	446	479	515	553			
Morocco	551	520	565	593	548			
Poland	654	564	473	457	505			
Turkey	675	457	384	363	454			
Ukraine	- 1		-	789	453			
Netherlands	398	451	459	443	438			
Ghana	361	361	392	362	426			
Ecuador	876	739	391	384	347			
Tanzania	392	377	414	326	331			
Iran	235	260	270	277	327			
Senegal (3)	260	287	297	319	326			
All others	20,362	20,354	19,672	10,419	9,807			
Total	99,085	100, 311	97,556	97,051	98,112			

⁽¹⁾ Revised.

Note: -- Statistics on quantities caught by recreational fishermen in the United States are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1992, Vol. 74, Rome.

⁽²⁾ Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

⁽³⁾ Data estimated by FAO.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENT, 1988-92 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Continent	1988(1)	1989(1)	1990(1)	1991(1)	1992	
North America	9,570	9,537	9,530	9,080	8,636	
South America	14,596	16,003	14,447	15,457	15,877	
Europe	13,072	12,491	11,400	11,292	12,623	
Former USSR	11,332	11,310	10,389	9,217	6,814	
Asia	44,191	45,032	45,666	46,083	47,803	
Africa	5,360	4,975	5,091	4,819	5,178	
Oceania	927	921	952	1,014	1,081	
Other	37	42	81	89	100	
Total	99,085	100,311	97,556	97,051	98,112	

(1) Revised.

Source: -- Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1992; Vol. 74, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1988-92 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Area	1988(1)	1989(1)	1990(1)	1991(1)	1992			
	Thousand metric tons							
		<u>Live weight</u>						
Marine Areas:	_							
Pacific Ocean	53,446	54,879	53,132	52,143	51,412			
Atlantic Ocean	26,550	25,369	23,556	23,490	24,105			
Indian Ocean	5,680	6,188	6,179	6,652	7,017			
Total	85,676	86,436	82,867	82,285	82,534			
Inland waters:								
North America	540	546	551	545	613			
South America	356	340	335	330	362			
Europe	476	475	465	439	446			
Former USSR	1,002	1,030	988	706	632			
Asia	9,222	9,653	10,395	10,914	11,694			
Africa	1,787	1,806	1,929	1,806	1,805			
Oceania	26	25	26	26	26			
Total	13,409	13,875	14,689	14,766	15,578			
Grand total	99,085	100,311	97,556	97,051	98,112			

(1) Revised.

Source: -- Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1992; Vol. 74, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1988-92, (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Species group	1988 (1)	1989(1)	1990(1)	1991(1)	1992
		<u>Tho</u> u	sand metric t	ons	
	<u>Live weight</u>				
Carps, barbels, cyprinids	4,898	5,025	6,239	6,339	7,037
Cods, hakes, haddocks	13,636	12,914	11,788	10,399	10,543
Flatfish	1,342	1,204	1,227	1,104	1,175
Herrings, sardines, anchovies	24,387	24,800	22,280	21,710	20,389
Jacks, mullets, sauries	9,130	9,353	9,725	10,316	10,498
Mackerel, snoeks, cutlassfishes.	3,868	3,771	3,515	3,445	3,309
Redfish, basses, congers	5,705	5,918	5,742	5,944	5,853
River eels	116	111	187	201	205
Salmons, trouts, smelts	1,175	1,456	1,452	1,643	1,447
Shads	658	739	646	670	661
Sharks, rays, chimaeras	689	679	689	699	698
Sturgeons, paddlefish	21	19	18	15	14
Tilapias	708	756	855	881	940
Tunas, bonitos, billfishes	4,065	4,084	4,371	4,454	4,395
Other fishes	15,873	16,218	15,841	15,569	16,105
Crabs	1,140	1,272	1,278	1,515	1,585
Krill	371	396	375	233	296
Lobsters	225	210	217	223	208
Shrimp	2,515	2,526	2,601	2,808	2,912
Other crustaceans	312	322	326	358	394
Abalones, winkles, conchs	100	87	72	71	72
Clams, cockles, arkshells	1,467	1,459	1,469	1,524	1,696
Mussels	1,286	1,310	1,325	1,304	1,338
Oysters	1,103	1,048	1,008	994	1,067
Scallops	868	838	879	845	1,044
Squids, cuttlefishes, octopus	2,295	2,730	2,346	2,617	2,758
Other mollusks	848	752	800	794	909
Miscellaneous	284	314	285	376	564
Total	99,085	100,311	97,556	97,051	98,112

⁽¹⁾ Revised.

Source: --Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1992, Vol. 74, Rome.

DISPOSITION OF WORLD COMMERCIAL CATCH, 1988-92 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

(2020 NO. 1102082 NV. 11112 NV. 11110 NV. 1100 NV. 10 1 2 NV. 0)								
Item	1988(1)	1989(1)	1990(1)	1991(1)	1992			
		<u>-</u> Pe	rcent of tota	1				
Marketed fresh	21.3	22.7	21.9	21.6	26.2			
Frozen	23.7	23.6	24.8	24.7	24.1			
Canned	12.2	12.5	12.9	13.1	12.3			
Cured	11.0	10.2	10.9	10.9	9.3			
Reduced to meal and oil (2)	30.1	29.4	27.9	28.1	26.3			
Miscellaneous purposes	1.7	1.6	1.6	1.6	1.8			
Total	100.0	100.0	100.0	100,0	100.0			

⁽¹⁾ Revised.

Source: -- Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1992, Vol. 75, Rome.

⁽²⁾ Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

WORLD FISHERIES

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1988-92

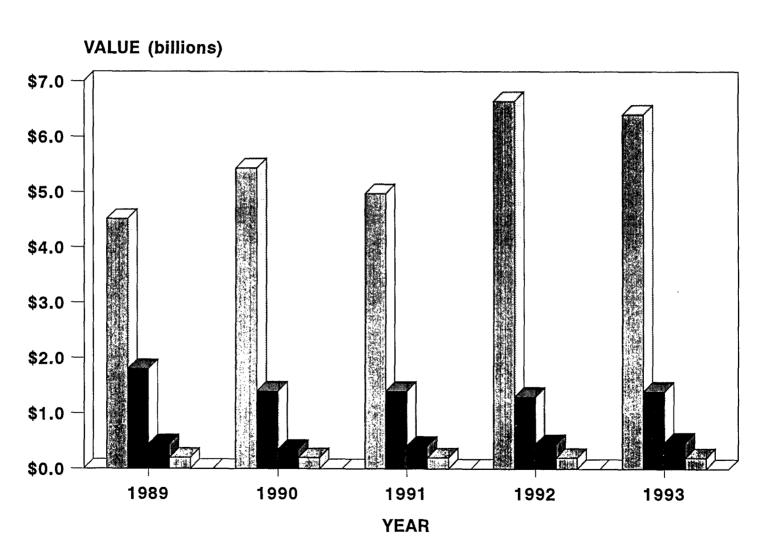
		ADIII G G G G G T T T	1120, 1300 32		
Country	1988 (1)	1989 (1)	1990 (1)	1991 (1)	1992
		The	ousand U.S. dol	.lars	
<u>IMPORTS</u>					
Japan	10,657,717	10,127,471	10,668,292	12,085,142	12,831,762
United States	5,389,345	5,756,932	5,573,241	5,999,580	6,024,064
France	2,243,783	2,193,878	2,809,033	2,925,994	2,933,401
Spain	1,725,879	1,816,160	2,360,653	2,748,305	2,898,232
Italy	1,898,823	1,984,470	2,458,086	2,689,639	2,643,440
Germany	1,428,863	1,479,366	1,899,729	2,114,720	2,190,892
United Kingdom	1,610,006	1,627,924	1,911,161	1,911,905	1,850,497
Hong Kong	1,030,588	988,063	1,111,938	1,236,578	1,403,913
Denmark	852,440	864,219	1,116,108	1,148,255	1,197,370
Netherlands	577,895	671,949	843,510	976,278	999,484
Thailand	537,818	726,846	794,423	1,052,908	942,090
Belgium	582,893	603,053	753 , 676	775,966	837,343
Portugal	457,133	390,589	606,040	757,843	734,928
Canada	593,327	659,238	620,315	675,242	686,876
China	333,251	359,498	207,083	438,090	680,843
Singapore	370,311	366,126	361,582	460,545	543,769
South Korea	314,967	317,091	364,738	568,229	498,036
Taiwan	403,227	452,004	425,720	458,880	489,176
Sweden	418,409	408,307	449,101	441,490	466,739
Other Countries	3,844,801	4,053,015	4,252,659	4,127,744	4,457,532
Total	35,271,476	35,846,199	39,587,088	43,593,333	45,310,387
EXPORTS					
United States	2,441,176	2,532,468	3,019,861	3,281,746	3,582,545
Thailand	1,630,891	1,959,428	2,264,937	2,901,360	3,071,580
Norway	1,608,071	1,563,496	2,059,784	2,282,247	2,436,832
Denmark	1,852,665	1,745,056	2,165,497	2,302,299	2,319,917
Canada	2,206,439	2,051,173	2,269,802	2,168,121	2,085,495
China	969,058	1,039,516	1,301,690	1,181,989	1,559,960
Netherlands	948,156	1,061,338	1,332,900	1,356,212	1,409,669
South Korea	1,782,918	1,539,558	1,363,296	1,490,766	1,359,050
Iceland	1,059,371	1,026,990	1,240,299	1,280,006	1,252,709
Chile	804,746	899,949	866,397	1,066,922	1,252,363
Taiwan	1,751,539	1,591,648	1,517,335	1,524,735	1,246,577
Indonesia	664,483	767,422	978,650	1,186,062	1,178,552
United Kingdom	734,093	794,293	961,982	1,121,885	990,631
France	730,885	772,724	931,193	925,560	981,014
Russia	/30,003	112,124	931,193	323,300	826,469
Japan	1,037,341	919,180	807,456	848,165	792,369
Spain	650,542	775,763	743,506	772,651	712,729
New Zealand	474,178	477,042	439,198	556,218	654,533
Germany	494,151	553,257	665,504	715,975	648,015
Other Countries	9,983,115	10,014,177	10,825,714	11,946,306	11,018,821
ļ					
Total	31,823,818	32,084,478	35,755,001	38,909,225	39,379,830

Revised.

Note:--Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not i the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, dried, salted,, etc.; 4. Fish products and preparations, whether or not in airtight containers 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals solubles, and simi animal foodstuffs of aquatic animal origin.

Source: -- Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1992, Vol. 75, Rome.

VALUE OF PROCESSED FISHERY PRODUCTS FROM DOMESTIC CATCH & IMPORTED PRODUCTS 1989 - 1993



Fresh & Frozen Canned Industrial Cured

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VALUE OF PROCESSED FISHERY PRODUCTS, 1992 AND 1993 (Processed from domestic catch and imported products)

Item	1	992	1993	(1)
	<u>Thousand</u> <u>dollars</u>	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen	6,644,518	76.9	6,397,184	75.8
Canned	1,330,173	15.4	1,370,605	16.2
Cured	210,781	2.4	193,566	2.3
Total edible	8, 185, 472	94.8	7, 961, 355	94.3
Industrial:				
Bait and animal food (canned) Meal, oil, and	247,261	2.9	255,637	3.0
solubles	157,693	1.8	181,229	2.1
Other	45,310	0.5	44,760	0.5
Total industrial.	450, 264	5,2	481,626	5.7
Grand total	8,635,736	100.0	8,442,981	100.0

⁽¹⁾ Preliminary. May not add due to rounding.

Note: -- Value is based on selling price at the plant.

FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1984-93

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1984-93

YEAR	Fish st	icks	Fish po	ortions	Breaded shrimp		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
1984	92,441	109,677	333,212	413,789	94,522	386,222	
1985	96,239	111,265	330,362	367,734	95,734	369,415	
1986	87,289	94,290	341,628	393,956	107,834	354,808	
1987	98,927	*142,946	323,746	*445,631	108,937	358,442	
1988	80,148	113,868	301,229	438,873	99,471	371,798	
1989	89,112	116,440	279,777	400,289	120,950	*404,592	
1990	65,209	74,866	242,775	352,589	110,760	353,265	
1991	63,286	77,877	204,697	313,400	116,324	335,838	
1992	58,295	56,020	194,307	296,214	*121,791	348,633	
1993	67,337	67,346	205,366	312,125	111,312	317,028	

^{*}Record. Records--1973 fish sticks production: 127,156,000 lb; 1973 fish portions production: 396,089,000 lb.

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1992 AND 1993

Species	1992	(1)	19	93
	Thousand	Thousand	Thousand	Thousand
	pounds	<u>dollars</u>	pounds	dollars
Fillets:				
Amberjack	507	1,051	710	1,441
Anglerfish	5,508	16,138	6,311	10,474
Bluefish	409	491	302	501
Cod	65,463	157,683	53,546	131,370
Cusk	507	1,216	636	1,762
Dolphin	3,272	10,692	3,808	13,014
Drum	316	743	171	450
Flounders	46,231	119,905	35,207	100,013
Groupers	2,547	12,981	2,747	14,075
Haddock	5,066	19,237	3,912	16,828
Hake	5,199	5,563	4,995	6,275
Halibut	6,398	25,359	4,557	18,965
Lingcod	1,288	2,364	1,392	2,514
Ocean perch:				
Atlantic	1,442	2,954	970	2,082
Pacific	777	1,304	815	1,359
Ocean pout	637	770	253	403
Pollock:				
Atlantic	9,364	19,259	8,438	17,594
Alaska	164,540	204,603	153,525	179,053
Rockfishes	19,251	30,154	17,517	27,925
Sablefish	2,270	4,338	1,189	2,118
Salmon	10,457	41,314	8,835	35,488
Sea bass	495	2,441	515	2,402
Sea trout	130	456	162	699
Shark	8,873	11,932	11,928	10,793
Snapper	1,407	6,503	2,641	12,933
Spanish mackerel	29	47	38	57
Swordfish	3,739	20,068	2,996	16,427
Tilapia	752	1,760	826	2,010
Tuna	5,338	28,256	6,183	32,564
Wahoo	82	531	134	945
Whitefish	1,556	3,563	1,565	3,560
Wolffish	81	220	100	316
Unclassified	25,801	71,040	21,528	57,290
Total	399,732	824,936	358, 452	723,700
Steaks:				
Flounders	25,783	13,010	28,225	25,152
Halibut	8,940	27,054	10,123	33,026
King mackerel	41	128	18	57,020
Salmon	3,372	9,901	2,983	9,389
Shark	1,159	1,943	592	1,242
Swordfish	2,824	13,864	3,782	19,521
Tuna	2,824	9,908	3,061	
Unclassified	4,006	11,251	2,169	10,758 6,280
Total			50,953	
	48,932	87,059		105, 425
Grand total	448,664	911, 995	409, 405	829, 125

⁽¹⁾ Revised.

Note: -- The following amounts of frozen fish blocks were produced from the fillets reported above: 66,897,972 lb valued at \$82,913,123 in 1992, and 37,859,811 lb valued at \$44,310,721 in 1993.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1992 AND 1993

			1992 (1)			1993	
	Pounds						
Species	per	Standard	Thousand	Thousand	Standard	Thousand	Thousand
	case	cases	pounds	dollars	cases	pounds	dollars
For human consumption:							
Herring	23.4	202,599	4,741	6,854	311,663	7,293	12,935
Mackerel	45	108,896	4,900	1,981	(2)	(2)	(2)
Salmon:	1 1		•	-•	,_,	,=,	,-,
Natural	44.25	3,377,470	149,453	292,821	4,486,170	198,513	307,191
Specialties	48	4,640	223	1,305	4,717	226	1,312
Sardines, Maine	23.4	745,188	17,437	24,508	613,415	14,354	25,054
Tuna:							
Solid	18.375	6,522,612	119,853	302,289	7,543,619	138,614	335,503
Chunk	18.375		489,128	585,413	26,129,524	480,130	568,516
Flakes	18	(3)	(3)	(3)	(3)	(3)	(3)
1				887,702	33,673,143	618,744	
Total tuna		33,141,823	608,981		<u> </u>	The second second	904,019
Specialties	48	92	4	30	100	5	27
Other	48	347,678	16,689	18,090	324,438	15,573	19,125
Total fish		37,928,386	802,428	1,233,291	39,413,646	854,708	1,269,663
Shellfish:	1						
Clam and clam							
products: (4)							
Whole and minced.	15	1,803,008	27,045	36,954	2,276,917	34,154	48,328
Chowder and juice	30	2,945,189	88,356	37,850	2,380,555	71,417	33,351
Specialties	48	277,910	13,340	12,905	222,136	10,662	8,108
Crabs, natural	19.5	5,086	99	669	3,974	77	547
Lobster meat and							
specialties	48	11,154	535	563	9,535	458	486
Oyster, specialties	48	-	-	-	66	3	25
Shrimp, Natural (5)		94,742	640	3,646	97,458	658	4,123
Other	48	76,532	3,674	4,295	213,634	10,254	5,974
Total shellfish.		5,213,621	133,689	96,882	5,204,275	127, 683	100,942
Total for human consumption		43,142,007	936, 117	1,330,173	44,617,921	982, 391	1,370,605
For bait and animal							
food:	l l						
Animal food	48	12,656,438	607,509	246,958	13,180,042	632,642	254,236
Salmon eggs	48	3,518	169	303	2,111	101	1,401
Total for bait & animal food	48	12,659,956	607,678	247, 261	13,182,153	632,743	255,637
Grand total		55,801,963	1,543,795	1,577,434	57,800,074	1,615,134	1,626,242

⁽¹⁾ Revised.

⁽²⁾ Included with other.

⁽³⁾ Included with chunk.(4) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

⁽⁵⁾ Drained weight.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED TUNA, 1992 AND 1993

	Pounds	1992		1993		
Item	per case	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	
Albacore:						
Solid	18.375	6,241	295,037	6,858	318,972	
Chunk	18.375	1,601	69,538	1,304	54,575	
Flakes	18	-	-			
Total		7,842	364,575	8,162	373,547	
Lightmeat:						
Solid	18.375	. 281	7,252	685	16,532	
Chunk	18.375	25,019	515,875	24,826	513,940	
Flakes and grated	18	(1)	(1)	(1)	(1)	
Total] [25,300	523, 127	25,511	530, 472	
Grand total		33,142	887,702	33,673	904,019	

(1) Included with chunk.

PRODUCTION OF CANNED SHRIMP, BY AREA, 1992 AND 1993

	Pounds	1992		1993	
Area	per case	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Gulf StatesPacific States	6.75 6.75	64 31	2,703 943	50 47	2,201 1,922
Total	6.75	95	3,646	97	4,123

PRODUCTION OF CANNED SALMON, 1992 AND 1993

	1110000	TION OF CANNED	CALIVIOIN, 1992 AIN	1330		
	Pounds	1992	2	1993		
Item	per case	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	
Chinook	44.25	3	320	3	398	
Chum	44.25	147	8,032	130	9,200	
Pink	44.25	2,035	143,105	3,260	193,847	
Coho	44.25	39	3,676	24	2,196	
Sockeye	44.25	1,153	137,688	1,069	101,550	
Total	44.25	3,377	292, 821	4, 486	307,191	

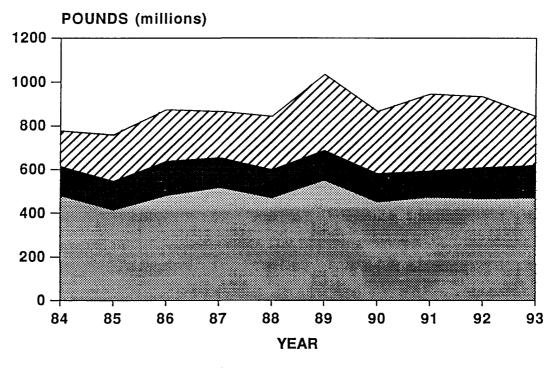
CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1984-93

Year	For human consumption		Fo	<i>'</i>	Total	
			animal foo	d and balt		
	<u>Thousand</u>	<u>Thousand</u>	<u>Thousand</u>	<u>Thousand</u>	Thousand	Thousand
	pounds	dollars	pounds	dollars	pounds	dollars
1984	1,041,845	1,435,532	369,123	141,931	1,410,968	1,577,463
1985	913,078	1,269,311	248,068	91,003	1,161,146	1,360,314
1986	1,011,080	1,384,213	320,953	100,377	1,332,033	1,484,590
1987	965,012	1,476,484	220,641	85,416	1,185,653	1,561,900
1988	908,687	1,388,122	222,920	97,492	1,131,607	1,485,614
1989	1,109,788	*1,753,536	345,464	238,343	1,455,252	*1,991,879
1990	956,962	1,414,846	221,320	146,947	1,178,282	1,561,793
1991	981,275	1,439,362	404,440	204,917	1,385,715	1,644,279
1992	936,117	1,330,173	607,678	247,261	1,543,795	1,577,434
1993	982,391	1,370,605	632,743	*255,637	1,615,134	1,626,242

*Record. Records--1981 for human consumption: \$1.954 million lb; 1973 animal food and bait: 696.4 million lb; 1973 total: 1.647 million lb.

U.S. SUPPLY OF CANNED TUNA (CANNED WEIGHT) 1984 - 1993



44

PROCESSED FISHERY PRODUCTS

INDUSTRIAL PRODUCTS

PRODUCTION OF MEAL, OIL, AND SOLUBLES, 1992 AND 1993

Product	1992	(1)	1993	1
	<u>Thousand</u> pounds	<u>Thousand</u> dollars	Thousand pounds	Thousand dollars
Dried scrap and meal:				
Fish:				
Menhaden	387,464	72,837	471,036	78,429
Tuna and mackerel	68,524	10,345	66,018	8,518
Unclassified	167,922	37,653	188,484	41,981
Total	623, 910	120,835	725, 538	128,928
Shellfish	20,602	1,221	23,342	1,304
Total, scrap and meal	644,512	122,056	748,880	130,232
Solubles, total	93,007	8,369	126, 903	10,220
Body oil:				
Menhaden	177,718	26,402	291,371	40,527
Unclassified	7,007	866	2,002	250
Total, oil	184, 725	27,268	293,373	40,777

⁽¹⁾ Revised

Note: --To convert pounds of oil to gallons divide by 7.75. The above data includes production in American Samoa and Puerto Rico.

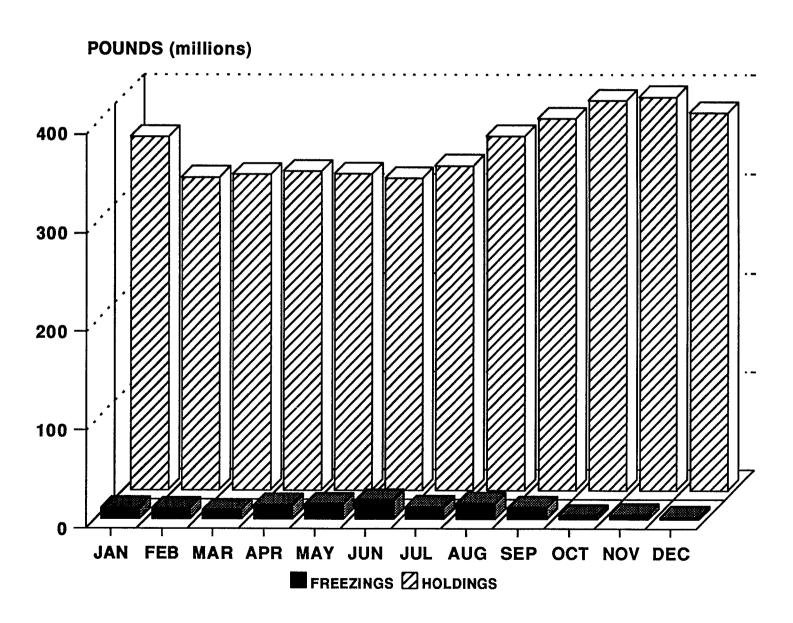
PRODUCTION OF INDUSTRIAL PRODUCTS, 1984-93

FRODUCTION OF INDUSTRIAL FRODUCTS, 1904-93								
		Quantity			Value			
Year			Marine	Meal,	Other			
	Meal	Solubles	animal	solubles,	industrial	Grand		
			oil	and oil	products	total		
	Thousand pounds			<u>T</u>	housand dollar	cs		
1984	751,528	252,076	372,804	189,796	44,258	234,054		
1985	721,682	323,028	285,077	144,724	37,775	182,499		
1986	702,194	195,148	336,708	138,765	36,825	175,590		
1987	* 786 , 978	249,289	298,496	174,321	37,524	211,845		
1988	643,796	223,449	224,733	188,843	46,737	235,580		
1989	618,382	232,709	225,478	156,321	49,756	206,077		
1990	577,498	185,660	281,949	163,796	42,759	206,555		
1991	612,716	169,607	267,345	170,495	37,707	208,202		
1992	644,512	93,007	184,725	157,693	45,310	203,003		
1993	748,880	126,903	293,373	181,229	44,760	225,989		

*Record. Record--1959 fish solubles production: 330,718,000 lb, 1980 other industrial products \$63,525,000 and 1980 grand total \$269,606,000.

Note: -- Does not include the value of imported items that may be further processed.

U.S. COLD STORAGE FREEZINGS AND HOLDINGS, BY MONTH, 1993



FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1993

U.S. COLD S	TORAGE HO			ODUCTS, 199	93	
Item	January	February	March	April	May	June
	31	28	31	30	31	30
Fish			Thousand	d pounds		
D1 -1- "						
Blocks:	11 063	1 0.700	1 6 700	1 4 010	5 267	1 5 000
Cod	11,862	9,709	6,722	4,810	5,367	5,860
Flounder	1,253	1,169	944	823	769	881
Haddock	1,073	938	828	815	530	703
Ocean perch	265	171	235	223	233	171
Pollock: Alaska	13,024	11,738	10,670	16,186	22,052	17,536
Saithe and other	6,367	6,957	9,089	2,821	4,627	5,826
Whiting	3,655	3,396	1,934	1,875	1,584	1,352
Minced (grated) all species	12,385	9,590	10,071	10,374	10,753	11,120
Unclassified	5,106	3,552	2,976	1,791	1,754	1,775
Total blocks	54,990	47,220	43,469	39,718	47,669	45,224
Fillets and steaks:			1)
Cod	16,409	15,273	20,447	27,237	27,730	24,526
Flounder	9,170	8,258	8,001	7,049	6,988	5,780
Haddock	1,981	1,812	1,018	1,036	1,440	1,137
Halibut	1,289	1,047	845	779	662	936
Ocean perch	2,184	2,867	1,567	1,228	1,335	683
Pollock	21,207	19,807	23,692	26,043	24,357	21,684
Whiting	3,183	2,954	2,467	2,077	1,863	1,490
Unclassified	17,666	16,098	15,623	14,540	14,165	14,013
Total fillets and steaks	73,089	68,116	73,660	79,989	78,540	70,249
Fish sticks and portions						
(cooked uncooked, all species).	24,956	21,671	21,084	21,295	23,993	25,434
Round, dressed, etc.:						
Catfish	12,147	10,337	10,628	10,963	9,972	8,594
Halibut	10,964	7,191	4,208	2,300	727	10,499
Rainbow trout	1,074	1,089	1,036	938	878	779
Salmon	41,872	33,065	23,648	14,717	10,421	7,566
Whiting	3,410	2,746	1,941	2,436	3,108	4,600
Unclassified	21,427	16,798	17,256	26,119	21,040	20,563
Surimi and analog products	31,697	28,088	35,408	32,808	36,188	29,254
Shellfish				-2,500	20,200	2.,
Clams and clam meats	1,372	3,010	4,186	5,971	3,691	4,062
Crabs:	-,		-,	2,,,,	2,022	1,112
King	2,257	1,879	1,509	1,202	1,080	2,046
Snow	6,788	10,201	19,756	22,313	19,120	16,372
Unclassified	2,504	3,549	2,697	1,856	2,723	3,421
Lobsters (spiny and other)	3,125	2,995	3,385	2,638	2,455	3,311
Scallops	2,640	2,564	2,262	2,587	2,839	2,623
i -	27010	2/301	2,202	2/30/	2,037	2,023
Shrimp:	10 (40	15 272	14 460	12 207	12 002	11 060
Raw, headless	18,648	15,273	14,468	13,287	12,003	11,860
Breaded	6,246	6,166	5,637	5,983	5,722	5,783
Peeled	13,722	12,109	10,436	10,027	11,704	15,779
Unclassified	9,808	8,585	8,271	8,347	8,746	7,081
Total shrimp	48,424	42,133	38,812	37,644	38,175	40,503
Squid	3,626	2,688	3,209	3,042	3,435	3,207
Other shellfish	2,422	3,189	3,316	5,212	4,557	5,541
Bait and animal food	9,612	9,093	9,042	10,231	10,813	12,700
Total fish and shellfish	358,396	317,622	320,512	323,979	321,424	316,548
						1

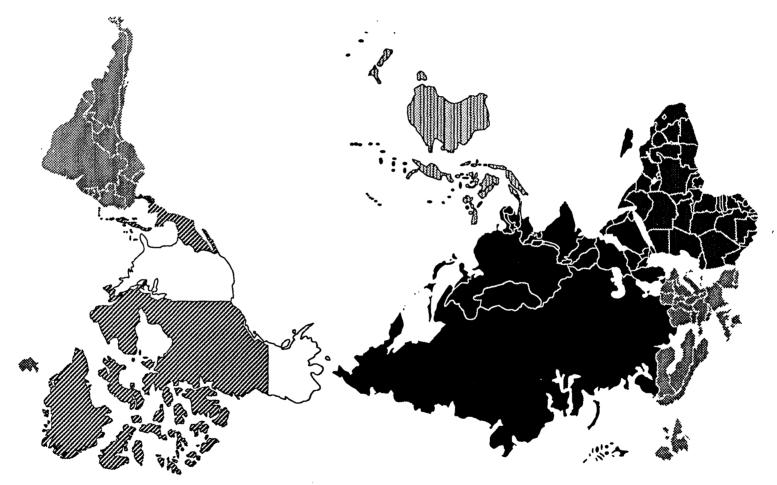
FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1993

U.S. COLD S						1 5
Item	July	August	September	October	November	December
	31	31	30	31	30	31
<u>Fish</u>			Thousand	l pounds		
Blocks:			•			
Cod	7,951	7,870	7,370	7,944	6,418	4,603
Flounder	932	790	602	908	838	949
Haddock	769	1,169	1,001	1,179	2,095	1,113
Ocean perch	178	142	117	141	192	123
Pollock: Alaska	18,141	13,517	12,225	14,373	12,263	10,536
Saithe and other	4,498	5,537	6,567	5,199	4,335	5,558
Whiting	1,476	1,528	1,206	2,001	1,115	1,324
Minced (grated) all species	12,344	11,053	10,858	9,322	8,175	4,558
Unclassified	2,432	2,765	3,921	4,178	4,443	5,705
Total blocks	48,721	44,371	43,867	45,245	39,874	34,469
	40,722	**///	20,007	20,423	33,074	34,403
Fillets and steaks:			İ			
Cod	29,953	29,657	26,798	27,085	28,613	31,270
Flounder	5,930	6,645	5,495	6,543	8,346	8,107
Haddock	1,646	1,641	910	1,479	586	696
Halibut	1,025	805	1,316	877	1,110	1,090
Ocean perch	1,357	1,705	1,292	1,586	1,659	2,065
Pollock	21,418	22,356	27,395	35,286	35,882	28,798
Whiting	2,460	2,805	3,222	6,154	5,187	5,761
Unclassified	13,826	14,131	17,638	16,587	18,969	18,614
Total fillets and steaks	77,615	79,745	84,066	95,597	100,352	96,401
'	777,025	,,,,,,	02,000		100/202	30,402.
Fish sticks and portions (cooked uncooked, all species).	22,628	22,803	20,217	19,635	19,662	23,430
Round, dressed, etc.:						
Catfish	8,610	7,890	7,973	8,771	10,166	9,717
Halibut	8,275	6,701	14,702	13,183	10,805	8,417
Rainbow trout	593	482	309	350	388	631
Salmon	16,906	54,715	58,976	53,314	54,432	48,954
Whiting	5,555	3,412	6,538	2,633	2,819	2,385
*		· ·		1	l .	
Unclassified	16,673	18,475	17,873	24,416	23,166	21,591
Surimi and analog products	24,665	24,634	25,261	29,353	28,169	23,654
Shellfish						
Clams and clam meats	4,207	4,345	2,546	4,845	5,070	5,633
Crabs:						
King	1,702	1,966	1,453	2,703	2,736	2,825
Snow	15,576	14,815	13,627	11,628	10,353	8,732
Unclassified	3,998	4,117	3,513	3,545	4,025	4,691
Lobsters (spiny and other)	4,116	4,005	3,864	4,027	4,460	4,389
Scallops	1,999	3,597	4,173	4,380	4,125	3,615
Shrimp:			-		-	
Raw, headless	12,467	13,123	13,315	14,408	17,733	17,296
Breaded.	5,775	5,714	5,844	5,778	5,672	6,060
Peeled	16,970	16,303	16,786	18,755	17,835	18,360
Unclassified					9,590	
1	12,139	7,977	8,310	9,499		13,390
Total shrimp	47,351	43,117	44,255	48,440	50,830	55,106
Squid	3,503	4,576	7,626	11,808	12,140	13,911
Other shellfish	4,249	3,981	5,125	3,127	4,739	3,286
Bait and animal food	12,554	11,299	10,365	7,724	10,062	10,771
Total fish and shellfish	329,496	359,046	376,329	394,724	398,373	382,608

Note:--Holdings of frozen fishery products include domestic and imported fish and shellfish. Source:--Frozen Fishery Products - Annual Summary, 1993, Current Fishery Statistics No. 9301 will provide additional information.

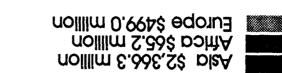
(noillim 7.848,3\$ stroqml lotoT) U.S. Imports of Edible Fishery Products, 1993



Imports by Continent

\$11 P. P.

Australia & Oceania \$267.9 million North America \$1,724.1 million south America \$926,2 million grant America



IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1992 AND 1993

	Item 1992 1993				
			1993		
Edible fishery products: Fresh and frozen:	<u>Thousand</u> pounds	<u>Thousand</u> dollars	Thousand pounds	<u>Thousand</u> dollars	
Whole or eviscerated:	<u> </u>	3-2-4-3-2-4-	<u> Pydnyy</u>		
Flatfish	29,447	42,961	36,409	53,983	
Groundfish	64,831	42,406	61,698	42,329	
SalmonTuna:	103,195	233,885	114,716	246,829	
Albacore	198,125	205,145	189,664	219,545	
Other (1)	238, 467	148,012	246,014	161,069	
Other	245,540	259,217	278,615	292,236	
Fillets and steaks:				•	
Flatfish	48,047	113,777	49,070	119,972	
Groundfish	172,755	322,782	186,516	332,132	
OtherBlocks and slabs	187,257 229,314	362,074 304,154	204,768 211,569	386,927 219,071	
Surimi.	1,869	2,190	73	31	
Shrimp	586,157	1,999,520	592,808	2,153,419	
Crabmeat	11,671	44,126	14,008	51,749	
Lobster:		·	,		
American	34,065	156,653	35,767	163,334	
Spiny	25,955	275,553	23,364	215,233	
Scallops (meats)	38,682 129,550	159,631 273,867	51,973 154,399	218,631 301,193	
<u>-</u>					
Total, fresh and frozen	2,344,927	4,945,953	2,451,431	5,177,683	
Canned: Anchovy	6,010	20,020	6,936	22,766	
Herring.	1,903	2,154	1,638	1,986	
Mackerel	13,144	6,301	25,688	12,993	
Salmon	974	2,143	428	1,539	
Sardines:		i			
In oil	13,164	24,197	14,314	25,872	
Not in oil	23,347 323,413	20,820 308,871	24,797 224,419	22,468 225,829	
Clams	12,050	13,695	10,489	12,175	
Crabmeat	9,577	28,381	9,817	30,874	
Lobsters	697	6,625	769	7,114	
Oysters	12,705	36,564	12,835	36,291	
Shrimp	9,273	17,913	8,170	16,162	
Balls, cakes, and puddings Other fish and shellfish	8,208 34,811	14,683 77,519	7,903 33,455	15,498 62,550	
Total, canned	469,276	579,886	381,658	494,117	
Cured: Dried	16,272	51,221	14,850	45,360	
Pickled or salted	41,920	59,525	46,226	54,308	
Smoked or kippered	8,677	23,675	8,089	22,819	
				···	
Total, cured	66,869	134, 421	69,165	122, 487	
Caviar and roe	2,972	18,306	4,268	24,703	
Prepared meals	3,254	7,238	2,912	6,894	
Other fish and shellfish	6,656	20,072	7,726	22,855	
Total edible fishery products	2,893,954	5, 705, 876	2,917,160	5,848,739	
Nonedible fishery products:		5,700,070	-, -, -, -, -, -, -, -, -, -, -, -, -, -	2,020,700	
Meal and scrap	150,911	35,079	760,664	106,145	
Fish oils	23,772	12,327	26,028	14,650	
Other	<u> </u>	4,117,980		4,652,853	
Total nonedible fishery					
products		4,165,386	- I	4,773,648	
Grand total		9,871,262	# 1	10,622,387	

⁽¹⁾ Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, whole, headed, etc.

Source: -- U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1984-93

Year	Edible		Nonedible	Total
	Thousand pounds			
1984	2,454,287	3,742,333	2,141,060	5,883,393
1985	2,754,018	4,064,334	2,614,252	6,678,586
1986	2,978,905	4,813,488	2,812,805	7,626,293
1987	3,201,132	5,711,233	3,106,464	8,817,697
1988	2,967,786	5,441,628	3,430,369	8,871,997
1989	*3,243,017	5,497,849	4,106,507	9,604,356
1990	2,884,596	5,233,167	3,814,513	9,047,680
1991	3,014,819	5,671,887	3,763,173	9,435,060
1992	2,893,954	5,705,876	4,165,386	9,871,262
1993	2,917,160	*5,848,739	*4,773,648	*10,622,387

^{*}Record. Source: -- U.S. Department of Commerce, Bureau of the Census.



FISHERY PRODUCTS IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1984-93

	Val	alue Duties collected		Average ad valorem equivalent		
Year	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
				Percent		
1984	5,883,393	322,989,519	145,689	12,042,152	2.5	3.7
1985	6,678,586	343,553,150	191,421	13,066,970	2.9	3.8
1986	7,626,293	368,656,594	187,791	13,312,112	2.5	3.6
1987	8,817,697	402,066,002	178,861	13,922,567	2.0	3.5
1988	8,871,997	437,140,185	206,470	15,054,304	2.3	3.4
1989	9,604,356	472,976,600	235,851	16,096,400	2.5	3.4
1990	9,047,680	490,553,800	213,710	16,338,700	2.4	3.3
1991	9,435,060	483,027,900	204,694	16,197,300	2.2	3.4
1992	9,871,262	525,091,414	206,480	17,164,481	2.1	3.3
1993	10,622,387	486,386,000	215,885	18,333,800	2.0	3.8

Source: -- U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1993

Γ		···	Nonedible metal			
Continent and Country	Edi Thousand	DT6	Nonedible	Total		
	pounds		Thousand dollars-			
North America:						
Canada	564,912	1,080,262	407,443	1,487,705		
Mexico	72,747	291,743	100,022	391,765		
Honduras	27,310	90,393	, -	90,393		
Panama	38,654	68,548	4,706	73,254		
Dominican Republic	648	1,544	67,001	68,545		
Other	64,973	191,637	36,355	227,992		
Total	769, 244	1,724,127	615,527	2, 339, 654		
South America:						
Ecuador	160,177	428,220	3,269	431,489		
Chile	105,100	183,157	16,765	199,922		
Peru	16,590	30,886	110,341	141,227		
Brazil	27,584	95,056	41,236	136,292		
Argentina	62,765	60,143	17,044	77,187		
Other	67,225	128,697	54,337	183,034		
Total	439, 441	926, 159	242,992	1,169,151		
Europe:						
European Union:	1 051	0 110	1 051 007	1 054 000		
Italy	1,051	2,119	1,251,907	1,254,026		
France	47,026	19,058	401,338	420,396		
Germany	1,317	2,028	175,864	177,892		
United Kingdom	5,603	15,645	87,272	102,917		
Spain	21,734 29,418	24,211 56,793	47,325 118,431	71,536 175,224		
Other						
Total	106, 149	119,854	2,082,137	2,201,991		
Other:	95,334	205,654	938	206,592		
Iceland				-		
Norway	34,776	78,193	10,431	88,624		
Russia	61,902	79,128	8,524	87,652		
Switzerland	2	34	75,419 38,900	75,453 38,903		
Malta & Gozo	12,647	16,143	56,511	72,654		
Total	204, 662	379, 155	190,723	569,878		
Asia:	411,111	3.2,23		222,27		
Thailand	407,730	985,622	377,072	1,362,694		
Japan	69,459	154,276	239,056	393,332		
China	179,934	299,913	72,701	372,614		
Hong Kong	9,871	14,993	340,273	355,266		
India	59,036	100,105	164,886	264,991		
Other	504,745	811,446	392,061	1,203,507		
Total	1,230,775	2,366,355	1,586,049	3, 952, 404		
Australia and Oceania:		,				
New Zealand	72,798	164,488	3,914	168,402		
Australia	13,517	91,295	16,871	108,166		
French Polynesia	66	214	6,200	6,414		
Vanuatu	11,162	3,613	2	3,615		
Fiji	1,115	2,419	155	2,574		
Other	8,489	5,855	1,237	7,092		
Total	107,147	267,884	28,379	296, 263		
Africa:						
South Africa	18,772	25,844	15,814	41,658		
Morocco	8 , 577	19,416	6,964	26,380		
Ghana	24,127	10,514	-	10,514		
Nigeria	2,999	4,864	537	5,401		
Namibia	383	799	616	1,415		
Other	4,884	3,768	3,910	7,678		
Total	59,742	65,205	27,841	93,046		
Grand total	2,917,160	5, 848, 739	4,773,648	10,622,387		

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1992 AND 1993

Species and type	199	2 .	1993	3
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Regular blocks and slabs:				
Cod	77,558	157,550	47,114	78,993
Flatfish	5,377	10,270	5,809	10,790
Haddock	8,186	18,258	10,040	17,678
Ocean Perch	1,182	1,311	1,821	2,100
Pollock	82,975	67,251	83,501	62,221
Whiting	18,556	13,546	20,417	15,267
Other	3,714	6,857	2,948	4,384
Total	197,548	275,043	171,650	191,433
Minced blocks and slabs	31,766	29,111	39,919	27,638
Grand total	229, 314	304, 154	211,569	219,071

Source: -- U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1992 AND 1993

Country	1992		1993	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Iceland	16,978	31,435	25,976	41,281
China	43,311	35,155	52,295	34,326
Russia	19,460	18,002	39,950	31,960
Canada	41,919	70,788	22,252	29,458
Norway	6,079	13,210	9,379	15,743
Denmark	27,195	56,174	7,337	11,015
Argentina	13,099	8,516	11,681	8,634
South Korea	13,684	10,921	8,025	8,589
Thailand	13,389	12,182	5,559	5,850
Other	34,200	47,771	29,115	32,215
Total	229, 314	304,154	211,569	219,071

Source: -- U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1992 AND 1993 (1)

Species	19	92	19	93
	Thousand pounds	Thousand dollars	<u>Thousand</u> pounds	Thousand dollars
Cod	72,884	174,576	76,037	173,767
Haddock (2)	44,194	78,466	60,197	91,395
Ocean Perch	55,677	69,740	50,282	66,970
Total	172,755	322,782	186,516	332, 132

- (1) Does not include data on fish blocks and slabs.
- (2) Includes some quantities of cusk, hake, and pollock fillets.

Note:--Imports and Exports of Fishery Products Annual Summary, 1993, Current Fishery Statistics No. 9302 will provide additional information.

Source: -- U.S. Department of Commerce, Bureau of the Cenus.

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1984-93

Year	Quota	Imports		
	(1)	Under quota (2)	Over quota (3)	Total
	Thousand pounds			
1984	95,587	95,587	68,328	163,915
1985	97,496	97,496	116,854	214,350
1986	81,092	81,092	153,057	234,149
1987	91,539	91,539	123,364	214,903
1988	85,185	85,185	193,784	278,969
1989	76,734	76,734	234,323	311,057
1990	87,158	87,158	171,472	258,630
1991	75,092	75,092	237,236	312,328
1992	73,724	73,724	259,740	333,464
1993	72,681	72,681	144,287	216,968

- (1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa.
- (2) Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1993, 6 percent.
- (3) Dutiable in 1972 to 1993, 12.5 percent.

Note: -- Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts from insular possessions of the U.S., is subject to this quota.

Source: -- U.S. Department of the Treasury, U.S. Customs Service.

CANNED TUNA, BY COUNTRY OF ORIGIN, 1992 AND 1993

Country	1992		1993	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Thailand	231,832	225,286	139,501	141,280
Philippines	39,547	30,548	38,705	32,452
Indonesia	36,585	26,448	25,510	23,610
Taiwan	10,445	19,024	6,915	12,608
Ecuador	35	28	5,095	4,909
Malaysia	2,781	4,994	2,564	4,316
Columbia	-	-	3,456	3,511
Venezuela	204	185	773	733
Mauritius	354	565	344	583
Other	1,630	1,793	1,556	1,827
Total	323, 413	308,871	224, 419	225,829

Source: -- U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1992 AND 1993

Country	19		199	33
Country	Thousand	Thousand	Thousand	
	pounds	dollars	pounds	<u>Thousand</u> <u>dollars</u>
North America:	i i			
Mexico	30,119	146,141	44,940	211,452
Honduras	16,800	53,759	20,969	67,237
Panama	12,107	48,393	13,964	51,362
Guatemala	4,791	12,806	7,250	20,727
El Salvador	5,751	15,684	7,587	20,150
Canada	6,068 1,208	11,928 5,046	7,417 2,742	11,515 8,368
Nicaragua	556	1,794	2,241	8,167
Belize	688	2,596	1,212	3,924
Greenland	566	1,629	1,064	3,226
Other	415	1,232	516	1,622
Total	79,069	301,008	109,902	407,750
South America:	· · · · · · · · · · · · · · · · · · ·			
Ecuador	120,592	378,635	108,393	370,714
Venezuela	4,064	16,106	7,822	29,832
Brazil	12,135	35,481	9,816	29,163
Colombia	6,159	24,582	7,144	25,500
Peru	6,226	21,798	5,090	17,859
Guyana	5,518	13,564	5,764	14,497
Argentina	980	4,283	2,250	9,130
Chile	645 197	2,116 617	739 38	2,596
French Guiana	2	10	36	161
Total			147 056	400 4F0
	156,518	497,192	147,056	499, 452
Europe:				
European Union: Denmark	733	2,182	93	276
Germany	'55	2,102	71	252
Spain	1	7	51	178
United Kingdom	61	232	47	152
Ireland	- [-	41	46
Other	349	744	8	31
Total	1,144	3,165	311	935
Other:				
Norway	278	849	443	1,321
Iceland	234	1,210	342	961
Faroe Islands	104	304	401	822
Turkey	-	-	37	114
Moldova	_	-	39 24	57 36
Other	_	_		36
Total	616	2,363	1,286	3,311
Asia:				
Thailand	118,734	524,310	147,261	701,434
China	108,973	317,682	68,308	183,843
Indonesia	30,246	121,794	29,387	110,438
India	39,013	60,521	42,147	82,426
Bangladesh	18,395	67,430	21,062	79,453
Philippines	9,759 6,831	40,089 20,585	5,880 5,880	24,468
Malaysia	7,270	16,689	4,342	20,627 12,138
Pakistan	6,898	11,158	6,827	11,816
Taiwan	2,202	8,860	2,042	7,854
Other	6,503	17,876	5,977	17,531
Total	354,824	1,206,994	339, 113	1,252,028
Australia and Occaria	f	1 173	168	
Australia and OceaniaAfrica	184 3,075	1,173 5,538	3,142	644 5,461
Grand total		2,017,433	600,978	
Note: Statistics on imports are the w	595, 430			2,169,581

Note: -- Statistics on imports are the weights of the individual products as exported, i.e., raw headless, peeled, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1992 AND 1993

Type of product	1992		1993	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shell-on (heads off) Peeled:	351,760	1,280,795	341,144	1,315,147
Canned Not breaded:	9,273	17,913	8,170	16,162
Raw	215,228	623,920	226,714	713,215
Other	17,829	91,014	23,186	119,110
Breaded	1,340	3,791	1,764	5,947
Total	595, 430	2,017,433	600, 978	2, 169, 581

Source:--U.S. Department of Commerce, Bureau of the Census.

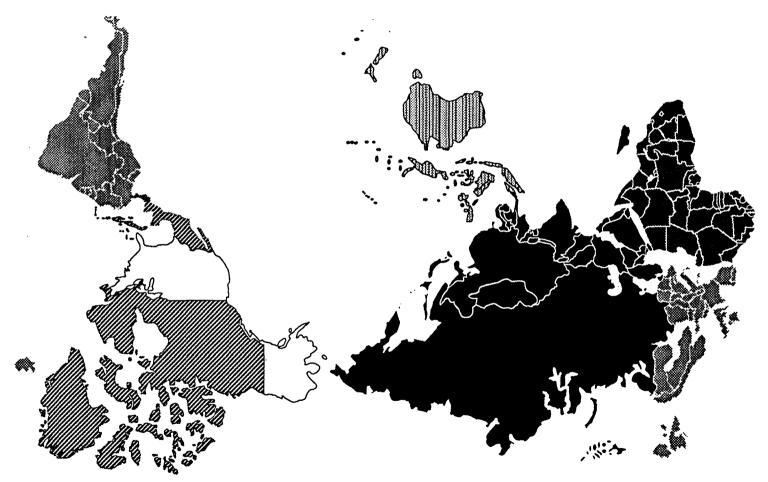


FISH MEAL AND SCRAP IMPORTS. BY COUNTRY OF ORIGIN, 1992 AND 1993

Country	1992		1993	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Peru	35,351	6,288	636,259	83,479
Canada	55,979	16,867	40,988	11,337
Chile	45,860	9,487	56,063	8,065
Panama	5,500	562	26,565	2,941
Norway	134	63	229	129
Taiwan	53	37	119	51
France	95	38	84	48
Argentina	414	117	93	27
United Kingdom	7	9	53	18
Other	7,518	1,611	211	50
Total	150, 911	35,079	760,664	106,145

Source: -- U.S. Department of Commerce, Bureau of the Census.

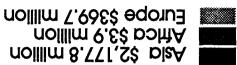
(Total Exports \$3,076,8 million) U.S. Exports of Edible Fishery Products, 1993



Exports by Confinent

Australia & Oceania \$21.5 million South America \$7.4 million Moth America \$496.5 million





EXPORTS

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1992 AND 1993 (1)

FISHERY PRODUCTS E		T		
Item	· · · · · · · · · · · · · · · · · · ·	92	19	93
Edible fishery products:	Thousand	Thousand	<u>Thousand</u>	Thousand
Fresh and frozen:	pounds	Dollars	pounds	Dollars
Whole or eviscerated:	100 155		154 444	***
Flatfish	133,175	93,059	154,840	106,842
Groundfish	171,200 124,930	141,270 71,586	97,798 99,617	77,514
Sablefish	34,381	79,422	46,096	48,150 91,433
Salmon	301,263	684,107	332,978	586,908
Tuna	20,011	35,836	21,660	34,728
Other	318,550	232,433	255,849	217,337
Fillets, and steaks:			-25,5.5	
Cod	8,763	10,803	5,099	7,069
Other	43,484	63,439	43,748	67,069
Blocks and slabs	41,588	48,312	38,199	36,938
Surimi	237,954	368,290	330,807	302,199
Fish sticks and like products	32,399	47,754	33,095	39,385
Clams	2,586	3,010	2,368	3,412
Crabs	172,510	443,276	134,604	408,675
Crabmeat	2,487	3,886	2,515	7,551
Lobsters	21,909	103,475	20,979	95,362
Scallops (meats)	3,589 6,570	14,818 12,417	4,147 6,678	15,588 12,551
Shrimp	43,448	159,663	41,819	12,551
Squid	50,809	35,251	52,544	34,427
Other fish and shellfish	22,156	43,969	27,530	51,662
Total, fresh and frozen	1,793,762	2,696,076	1,752,970	2,400,081
Canned:	477337102	2,030,010	Ly 102,3/0	
Salmon	77,895	154,462	84,610	160,596
Sardines	12,690	10,786	12,275	10,457
Tuna	10,141	14,161	8,534	11,788
Abalone	2,224	41,610	1,742	28,597
Crabmeat	789	2,314	668	1,577
Shrimp	1,931	5,914	2,557	7,358
Squid	6,340	2,669	4,533	2,456
Other fish and shellfish	66,380	75,028	12,551	13,292
Total, canned	178,390	306,944	127,470	236, 121
Cured:			· · · · · · · · · · · · · · · · · · ·	
Dried	5,064	20,455	2,961	14,517
Pickled or salted	10,644	16,629	4,414	5,934
Smoked or kippered	560	2,543	1,043	2,574
Total, cured	16,268	39,627	8,418	23,025
Caviar and roe:				
Herring	6,753	24,072	12,086	29,764
Pollock	39,368	182,471	24,275	106,115
Salmon	19,101	91,370	23,761	123,888
Other	19,000	113,586	22,603	146,053
Total, caviar and roe	84,222	411,499	82,725	405,820
Prepared meals	2,518 12,446	3,418 8,103	3,122 11,309	3,992 7,774
Total edible fishery products.	2,087,606	3,465,667	1,986,014	3,076,813
Nonedible fishery products:				
Meal and scrap	258,511	67,218	212,989	52,387
Fish oils	177,444	29,405	184,488	28,460
Other	, <u>-</u>	3,557,342	- 1	3,767,621
Total nonedible fishery				
products		3, 653, 965		3,848,468
Grand total		7,119,632		6, 925, 281

EXPORTS

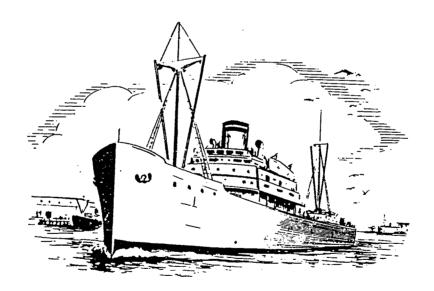
FISHERY PRODUCTS EXPORTS, 1984-93 (1)

Year	Edible		Nonedible	Total
	<u>Thousand</u> pounds			
1984	597,865	893,890	107,357	1,001,247
1985	672,537	1,064,289	74,888	1,139,177
1986	754,258	1,325,615	68,193	1,393,808
1987	806,116	1,625,385	96,725	1,722,110
1988	1,085,935	2,213,326	125,061	2,338,387
1989	1,405,977	2,355,603	2,582,538	4,938,141
1990	1,947,292	2,881,262	3,084,677	5,965,939
1991	2,058,594	3,155,771	3,386,037	6,541,808
1992	*2,087,606	*3,465,667	3,653,965	*7,119,632
1993	1,986,014	3,076,813	*3,848,468	6,925,281

⁽¹⁾ Figures reflect both domestic and foreign (re-exports). *Record.

NOTE: -- The increase in the nonedible value beginning in 1989 is due to re-examination of commodities that are considered to be based on fishery products including fish, shellfish, aquatic plants and animals and any products thereof, including processed and manufactured products.

Source:--U.S. Department of Commerce, Bureau of the Census.



EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1993 (1)

LDIBE	(' <i>)</i>			
Continent and Country		ble	Nonedible	Total
	<u>Thousand</u> <u>pounds</u>		-Thousand dollars-	
North America:				
Canada	224,915	409,361	900,146	1,309,506
Mexico	28,746	52,590	246,775	299,365
Dominican Republic	1,748 1,107	1,797	62,220	64,017
Panama	13,866	1,339 22,861	29,658 22,276	30,997 30,869
Other	4,421	8,593	110,684	119,277
Total	274,803	496,541	1,371,759	1,868,300
South America: Brazil	115	463	50,152	50,615
Venezuela	5,292	2,697	37,329	40,026
Argentina	301	383	36,031	. 36,414
Colombia	924	746	28,030	28,776
Chile	473	577	25,009	25,587
Other	1,664	2,508	44,625	47,133
Total	8,769	7,374	221,176	228,550
Europe:				
European Union:				
United Kingdom	61,521 54,727	109,152	168,636	277,788
France	17,300	91,752 21,331	99,582 130,752	191,334 152,083
Netherlands	11,974	19,437	98,955	118,392
Italy	15,160	29,142	67,833	96,975
Other	52,885	58,918	133,723	192,641
Total	213,567	329,732	699, 481	1,029,213
Other:	220,22,	022/122	020,002	2,023,220
Switzerland	962	2,988	139,496	142,484
Sweden	14,781	25,850	13,360	39,210
Norway	5,635	6,732	14,036	20,768
Russia	23,487	1,823	11,168	12,991 11,513
AustriaOther	1 4,969	10 2,546	11,503 30,507	33,053
				
Total	49,835	39,949	220,070	260,019
Asia:	1,129,185	1,919,489	415,687	2,335,176
Japan	202,522	110,504	118,775	2,333,170
Hong Kong	7,917	35,119	163,896	199,015
Taiwan	18,722	47,141	107,130	154,271
Singapore	1,358	4,617	114,796	119,413
Other	55,210	60,906	304,920	365,826
Total	1,414,914	2,177,776	1,225,204	3,402,980
Australia and Oceania:	44 773	45.000	50.055	00.000
Australia	11,794	17,210	62,857	80,067 16,786
New Zealand French Polynesia	2,021 304	2,907 570	13,879 1,603	2,173
Fiji	1,346	322	597	919
Fed Sts. of Micronesia	· -	4	846	850
Other	957	490	1,311	1,801
Total	16,422	21,503	81,093	102,596
Africa:				,
South Africa	1,654	1,313	16,245	17,558
Ghana	5,226	2,296	3,107	5,403
Nigeria	1	3	3,350	3,353
Egypt	746	229	2,037	2,266
Mauritius		_=	1110	1,110
Other	77	97	3,836	3,933
Total	7,704	3,938	29,685	33,623
Grand total	1,986,014	3, 076, 813	3,848,468	6, 925, 281
		•	•	

⁽¹⁾ Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Buleau of the Census.

EXPORTS

FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

Country	1992		1993	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	23,058	92,818	21,641	85,761
Mexico	10,017	33,501	10,346	32,921
Japan	954	3,180	1,751	6,869
Honduras	331	1,976	764	5 , 751
China	65	282	1,396	4,085
Norway	1,874	5,778	895	3,069
Sweden	1,280	3,776	675	1,945
United Kingdom	1,259	3,983	576	1,689
Bermuda	300	1,548	330	1,549
Other	4,310	12,821	3,445	11,642
Total	43,448	159,663	41,819	155, 281

(1) Figures reflect both domestic and foreign (re-export). Source:--U.S. Department of Commerce, Bureau of the Census.



CANNED SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

Country	199	92	1993		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Canada	1,062	3,042	732	2,780	
Thailand	296	977	234	893	
Belgium	74	389	178	869	
China	91	233	246	751	
Greece	37	93	715	555	
Germany	22	80	82	249	
Indonesia	42	108	46	235	
Japan	38	101	64	202	
Ecuador	- :	-	51	185	
Other	269	891	209	639	
Total	1,931	5,914	2,557	7,358	

(1) Figures reflect both domestic and foreign (re-export). Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

Country	1992		1993	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	235,698	579,430	263,870	484,352
Canada	13,023	25,941	28,116	45,850
France	23,904	35,737	18,636	25,668
Denmark	6,309	9,101	3,728	4,815
Sweden	5,468	6,468	4,093	4,094
Belgium	2,950	5,599	2,245	3,644
United Kingdom	4,496	6,614	2,754	3,514
Germany	1,168	1,909	1,598	2,354
South Korea	1,233	2,377	1,291	2,088
Other	7,014	10,931	6,647	10,529
Total	301, 263	684,107	332, 978	586,908

(1) Figures reflect both domestic and foreign (re-exports). Source:--U.S. Department of Commerce, Bureau of the Census.



CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

Country	. 1992		1993	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom	50,305	105,368	45,016	90,314
Canada	4,331	10,798	20,584	36,953
Australia	8,696	16,395	8,026	14,856
Netherlands	7,695	11,439	6,087	10,103
Belgium	1,532	2,435	1,382	2,512
New Zealand	582	994	987	1,673
Japan	1,564	2,331	679	1,084
Ireland	1,267	1,957	503	905
Thailand	171	222	240	413
Other	1,752	2,523	1,106	1,783
Total	77,895	154, 462	84,610	160,596

(1) Figures reflect both domestic and foreign (re-exports). Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FRESH AND FROZEN CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

Country	199)2	1993		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Japan	157,440	409,927	118,555	369,212	
China	7,508	15,001	8,435	19,427	
Canada	4,573	12,059	4,372	10,780	
South Korea	1,137	2,552	1,913	4,992	
Thailand	868	1,643	551	1,197	
Hong Kong	47	196	104	531	
United Kingdom	46	254	72	448	
Netherlands	- 1	-	76	420	
Belgium	9	32	80	302	
Other	882	1,612	446	1,366	
Total	172,510	443,276	134,604	408,675	

⁽¹⁾ Figures reflect both domestic and foreign (re-exports). Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN CRABMEAT EXPORTS, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

Country	1992		1993		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Japan	760	1,651	1,401	4,800	
China	-	-	241	603	
Canada	204	438	161	435	
Bermuda	25	119	136	375	
Mexico	22	57	139	263	
Belgium	203	129	70	187	
Hong Kong	16	65	119	149	
United Kingdom	147	142	60	136	
Netherlands Antilles	2	10	34	105	
Other	1,108	1,275	154	498	
Total	2,487	3,886	2,515	7,551	

⁽¹⁾ Figures reflect both domestic and foreign (re-exports). Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN HERRING EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

Country	19	92	1993		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Japan	99,120	62,749	65,969	41,377	
South Korea	1,396	1,041	2,515	2,067	
Canada	9,849	5,833	4,751	2,012	
China	2,885	1,347	3,370	1,670	
Russia	11,602	516	22,996	1,019	
Honduras	· -	-	10	3	
Mexico	24	12	6	2	
Other	54	88		_	
Total	124, 930	71,586	99,617	48.150	

⁽¹⁾ Figures reflect both domestic and foreign (re-exports). Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

Country	1992	2	1993	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Netherlands	131,321	18,501	86,507	11,662
United Kingdom	50	28	28,147	4,197
Canada	12,980	2,586	19,419	4,067
South Africa	-	-	20,941	3,164
Japan	701	346	15,406	2,301
Mexico	11,274	1,976	5,802	1,019
Denmark	-	-	3,945	447
South Korea	593	977	255	371
Indonesia	-	-	1,874	256
Other	20,525	4,991	2,192	976
Total	177,444	29,405	184, 488	28,460

⁽¹⁾ Figures reflect both domestic and foreign (re-exports). Source:--U.S. Department of Commerce, Bureau of the Census.



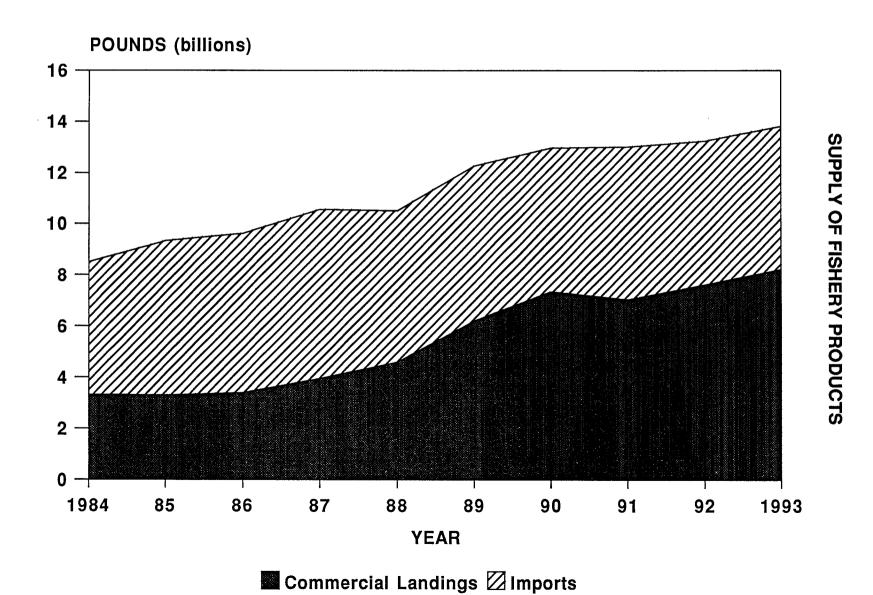
FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1992 AND 1993 (1)

TIGITIVILAL EXI ONTO	, DT 000MINT 01	BEOTHER CHOICE,	100271110 1000 (1)		
Country	1992	2	1993		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Taiwan	98,601	21,089	77,675	16,420	
Canada	56,846	14,915	57,011	13,544	
Japan	50,274	10,312	40,349	8,999	
China	6,005	2,147	10,789	2,376	
Mexico	9,632	3,311	7,723	2,371	
Thailand	1,909	3,477	1,982	2,285	
Indonesia	5,174	3,295	3,668	1,946	
South Korea	3,322	883	2,639	1,070	
Philippines	7,002	1,638	4,848	993	
Other	19,746	6,151	6,305	2,383	
Total	258,511	67,218	212,989	52,387	

⁽¹⁾ Figures reflect both domestic and foreign (re-exports). Source:--U.S. Department of Commerce, Bureau of the Census.

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U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS (ROUND WEIGHT) 1984 - 1993



U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1984-93 (Round weight)

Year		Domestic commercial landings (1)		Imports (2)		
1984 1985 1986 1987 1988 1989 1990 1990	Million pounds 6,438 6,258 6,031 6,896 7,192 8,463 9,404 9,484 9,637	Percent 51.3 41.3 42.0 43.8 49.2 54.7 56.5 58.0 59.8	Million pounds 6,114 8,892 8,337 8,848 7,436 7,022 6,945 6,879 6,469	Percent 48.7 58.7 58.0 56.2 50.8 45.3 41.7 42.0 40.2	Million pounds 12,552 15,150 14,368 15,744 14,628 15,485 16,653 16,363	
1993	*10,467	51.5	9,867	48.5	*20,334	

Preliminary.

Note: -- The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell).

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1984-93 (Round weight)

		(Hourid Wo	·9···/		
Year	Domestic commercial landings (1)		Impor (2)	Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds
1984. 1985. 1986. 1987. 1988.	3,320 3,294 3,393 3,946 4,588 6,204	39.1 35.3 35.3 37.4 43.7 50.6	5,178 6,043 6,227 *6,615 5,917 6,064	60.9 64.7 64.7 62.6 56.3 49.4	8,498 9,337 9,620 10,561 10,505 12,268
1990. 1991. 1992. 1993.	7,041 7,031 7,618 *8,214	55.6 54.0 57.5 59.4	5,621 5,989 5,624 5,607	44.4 46.0 42.5 40.6	12,662 13,020 13,242 *13,821

Preliminary.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1984-93 (Round weight)

		(11001101101	יייפ			
Year		Domestic commercial landings (1)		s	Total	
1984 1985 1986 1987 1988 1989	Million pounds 3,118 2,964 2,638 2,950 2,604 2,259 2,363 2,453	Percent 76.9 51.0 55.6 56.9 63.2 70.2 64.1 73.4	Million pounds 936 2,849 2,110 2,233 1,519 958 1,324	Percent 23.1 49.0 44.4 43.1 36.8 29.8 35.9 26.6	Million pounds 4,054 5,813 4,748 5,183 4,123 3,217 3,687	
1991	2,433 2,019 2,253	70.5 34.6	845 4,260	29.5 65.4	3,343 2,864 6,513	

⁽¹⁾ Preliminary. *Record. Records--1968 imports: 9 billion lb; 1968 total: 11 billion lb.

⁽²⁾ Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.
*Record. Records--1968 imports: 13 billion lb.

⁽²⁾ Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. *Record.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1992 AND 1993

Item	Domestic commercial landings		Imports (1)		Total	
	1992	1993	1992	1993	1992	1993
		<u>Mi</u>	llion pounds	round wei	aht	
Edible fishery products:		•			l	
Finfish	6,182	6,770	4,115	4,026	10,297	10,796
Shellfish	1,436	1,444	1,509	1,581	2,945	3,025
Total	7,618	8,214	5,624	5,607	13,242	13,821
Industrial fishery products:					! !	
Finfish	1,992	2,229	(2) 845	(2) 4,260	2,882	6,489
Shellfish	27	24	(3)	(3)	27	24
Total	2,019	2,253	(2) 845	(2) 4,260	2,909	6,513
Total:						
Finfish	8,174	8,999	4,960	8,286	13,179	17,285
Shellfish	1,463	1,468	1,509	1,581	2,972	3,049
Total	9,637	10,467	6,469	9,867	16,106	20,334

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINEISH AND SHELLEISH, 1992 AND 1993

VALUE OF U.S. SUPPLY	OI COMMIL	I TON LET HAT I	CITALID CITE	LLI 1011, 100	L 711D 1000		
Item	Domestic c land	ommercial ings	Import	Imports (1)		Total	
	1992	1993	1992	1993	1992	1993	
			<u>-Million</u>	dollars			
Edible fishery products:							
Finfish	1,878	1,741	2,620	2,588	4,498	4,329	
Shellfish	1,654	1,576	3,086	3,261	4,740	4,837	
Total	3,532	3,317	5,706	5,849	9,238	9,166	
Industrial fishery products:							
Finfish	135	143	(2) 35	106	170	249	
Shellfish	11	11	(3)	(3)	11	11	
Total	146	154	(2) 35	(2) 106	181	260	
Total:							
Finfish	2,013	1,884	2,655	2,694	4,668	4,578	
Shellfish	1,665	1,587	3,086	3,261	4,751	4,848	
Total	3,678	3,471	5,741	5,955	9,419	9,426	

⁽¹⁾ Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

(2) Includes only quantity and value of fish meal.

(3) Not available.

Note: -- Value of domestic commercial landings is exvessel value.

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1984-93 (Edible weight)

Year	v.s.	Imports	Total	Exports	Total
	Production			(1)	Supply
		<u>T</u>	nousand pounds -		
1984 1985 1986 1987 1988 1989 1990 1990 1991 1992	2,655 2,551 3,919 13,559 44,602 30,898 9,739 22,013 66,898 37,860	316,165 334,060 363,897 403,577 303,237 283,278 264,468 290,485 229,314 211,569	318,820 336,611 367,816 417,136 347,839 314,176 274,207 312,498 296,212 249,429	(2) (2) (2) (2) (2) 35,296 34,255 14,502 41,588 38,199	318,820 336,611 367,816 417,136 347,839 278,880 239,952 297,996 254,624 211,230

(1) For the period 1989-1991 data is estimated based on removal of surimi which was included in the export classification. (2) Not reported.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1984-93 (Edible weight)

		(Edible We	, ig. ic,		
Year	U.S.	Imports	Total	Exports	Total
]	Production (1)				Supply
		<u>Th</u>	ousand pounds -		
1984 1985 1986 1987 1988 1989 1990 1991 1991 1992 1993	356,081 378,236 371,082 440,692 472,668	473,594 536,725 538,532 620,985 517,709 517,620 458,413 440,018 408,059 440,354	725,882 782,250 818,000 977,066 895,945 888,702 899,105 912,686 856,723 849,759	31,281 25,742 49,534 66,036 100,301 68,931 51,599 69,086 52,247 48,847	694,601 756,508 768,466 911,030 795,644 819,771 847,506 843,600 804,476 800,912

(1) Includes fillets used to produce blocks.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1984-93 (Edible weight)

		(Edible V	reignity		
Year	U.S. Production (1)	Imports	Total	Exports (2)	Total Supply
		<u>T</u>	housand pounds -		
1984 1985 1986 1987 1988 1989 1990 1990 1991 1992	102,142 93,292 133,552 199,743 206,786 211,498 258,809 264,323 252,358 226,837	307,852 305,690 287,099 315,418 253,187 265,001 200,980 202,409 172,755 186,516	409,994 398,982 420,651 515,161 459,973 476,499 459,789 466,732 425,113 413,353	(3) 10,712 12,341 14,417 9,652 6,944 34,442 17,507 11,537	409,994 398,982 409,939 502,820 445,556 466,847 452,845 432,290 407,606 401,816

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and ocean perch. (2) Species include: cod 1986-93; pollock 1991-93. (3) Not reported.

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1984-93

(Thousand pounds)

	Domestic	commercial lar	ndings	Imports			
Year	Atlantic, Gulf Pacific Coast	Puerto Rico and American	Total	Fresh and frozen including	Can	ned	
	States, and Hawaii	(1) and discs (2	cooked loins and discs (2)	In oil	Not in oil		
		(Round weight)				weight	
1984	211,830	371,089	582,919	497,079	277	162,036	
1985	83,054	433,083	516,137	482,742	303	213,645	
1986	87,811	469,034	556,845	567,524	301	236,320	
1987	100,058	526,186	626,244	578,883	329	211,356	
1988	111,349	497,975	609,324	557,488	318	244,186	
1989	89,413	452,050	541,463	664,302	422	347,790	
1990	62,393	451,410	513,803	564,322	423	284,170	
1991	35,695	484,168	519,863	629,846	344	351,400	
1992	56,803	520,579	577,382	546,201	302	323,111	
1993	55,392	432,588	487,980	544,717	344	224,075	

- Includes a quantity of fish landed at other ports by U.S.-flag vessels.
 Includes landing in American Samoa of foreign caught fish.

U.S. SUPPLY OF CANNED TUNA, 1984-93 (Canned weight)

		100	med weight)			
V	Domestic production					
Year	Albacore	Lightmeat	Imports	Total	Exports	Total supply
			<u>Thousand</u>	d pounds		
1984	136,745	477,536	162,313	776,594	(1)	776,594
1985	132,001	412,992	213,948	758,941	(1)	758,941
1986	157,341	479,490	236,621	873,452	(1)	873,452
1987	139,888	514,095	211,685	865,668	(1)	865,668
1988	131,114	467,067	244,504	842,685	(1)	842,685
1989	137,284	548,983	348,212	1,034,479	6,495	1,027,984
1990	131,879	448,722	284,593	865,194	9,039	856,155
1991	121,700	471,086	351,744	944,530	11,310	933,220
1992	144,097	464,884	323,413	932,394	10,141	922,253
1993	149,978	468,766	224,419	843,163	8,534	834,629

(1) Not reported. Record--1978 U.S.Pack: 704,793,000 lb.

U.S. SUPPLY OF CANNED SARDINES, 1984-93 (Canned weight)

	U.S.	Impo	rts				
Year pack	pack	In oil	Not in oil	Total	Exports	Total supply	
			Thousa	nd pounds			
1984 1985 1986 1987 1988 1989 1990 1991 1992	14,650 20,016 15,601 13,116 18,611 13,221 13,240 13,986 17,437 14,354	17,535 23,009 22,949 27,352 22,813 21,771 18,660 16,570 13,164 14,314	27,216 34,213 30,315 37,670 30,546 34,608 38,303 31,945 23,347 24,797	59,401 77,238 68,865 78,138 71,970 69,600 70,203 62,501 53,948 53,465	1,749 1,099 558 1,157 8,717 9,070 9,048 10,668 12,690 12,275	57,652 76,139 68,307 76,981 63,253 60,530 61,155 51,833 41,258 41,190	

U.S. SUPPLY OF CANNED SALMON, 1984-93 (Canned weight)

		10011100111013	j,		
Year	U.S. pack	Imports	Total	Exports	Total supply
			Thousand pounds-		
1984 1985 1986 1987 1988 1989 1990 1991 1991	198,926 158,943 141,756 105,206 88,419 197,044 196,383 195,744 149,453 198,513	551 1,958 4,622 6,652 3,528 2,943 1,378 983 974 428	199,477 160,901 146,378 111,858 91,947 199,987 197,761 196,727 150,427 198,941	49,208 48,279 59,434 36,108 32,993 40,497 49,546 66,134 77,895 84,610	150,269 112,622 86,944 75,750 58,954 159,490 148,215 130,593 72,532 114,331

U.S. SUPPLY OF CLAM MEATS, 1984-93 (Meat weight)

							· · · · · · · · · · · · · · · · · · ·	
Year	U	.S. commerci	commercial landings Imports Total		Total	Exports	Total	
	Hard	Soft	Surf	Other	(1)			supply
				Thousar	nd pounds			
1984 1985 1986 1987 1989 1990 1991 1993	14,749 16,697 11,793 11,418 12,371 9,278 9,833 12,311 12,316 15,609	7,919 7,865 5,887 7,469 6,829 5,756 4,225 3,937 4,472	70,243 72,520 78,749 60,744 63,545 67,072 71,772 66,219 74,584 73,913	40,010 53,469 48,964 54,726 49,010 54,987 51,837 51,488 51,582 53,758	11,113 12,979 16,880 17,641 14,872 13,254 15,830 12,291 14,262 9,579	144,034 163,530 162,273 151,998 146,612 151,420 155,028 146,534 156,731	(2) 971 1,243 1,157 1,458 1,863 2,961 2,948 1,662 1,809	144,034 162,559 161,030 150,841 145,154 149,557 152,067 143,586 155,049

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.40, in shell or shucked; 0.30 canned chowder and juice; and 0.93, other. (2) Not reported.

U.S. SUPPLY OF KING CRAB, 1984-93 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
			Thousand poun	ds	
1984	17,204	(2)	17,204	4,359	12,845
1985	15,363	(2)	15,363	4,814	10,549
1986	25,909	(2)	25,909	7,215	18,694
1987	29,065	(2)	29,065	15,039	14,026
1988	20,973	(2)	20,973	10,554	10,419
1989	26,391	5,150	31,541	(3) 13,196	18,345
1990	33,917	4,925	38,842	(3) 19,486	19,356
1991	28,140	7,087	35,227	15,320	19,907
1992	19,056	11,958	31,014	16,241	14,773
1993	24,732	7,395	32,127	24,372	7,755

⁽¹⁾ Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33 (2) Not reported. (3) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1984-93

(Round weight)

		(1100110 11	0.3/		
Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
		<u>Tho</u> u	sand pounds		
1984	48,765	4,992	53,757	31,348	22,409
1985	85,742	6,572	92,314	47,615	44,699
1986	110,000	5,510	115,510	67,057	48,453
1987	113,812	7,706	121,518	92,644	28,874
1988	146,326	6,765	153,091	122,741	30,350
1989	164,643	3,927	168,570	(3) 111,028	57,542
1990	213,395	10,772	224,167	(3) 187,069	37,098
1991	357,122	19,091	376,213	(3) 316,162	60,051
1992	350,039	18,882	368,921	281,214	87,707
1993	255,733	31,224	286,957	220,618	66,339

⁽¹⁾ Converted to round (live) weight by multiplying canned weight by 5.00; fresh and frozen, 1.50; and meat, 4.50. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (belived to be mostly sections); meat, 4.50; and canned, 5.33. Foreign exports converted using the same factors as imports. (3) Estimated, based on available foreign import data.

U.S. SUPPLY OF CANNED CRABMEAT, 1984-93

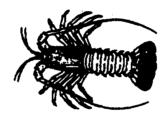
(Canned weight)

		(Carriba Wor	3/		
Year	U.S. pack	Imports	Total	Exports	Total supply
		T	housand pounds		
j					
1984	1,084	6,233	7,317	126	7,191
1985	553	7,584	8,137	141	7,996
1986	591	8,778	9,369	50	9,319
1987	200	7,967	8,167	63	8,104
1988	359	7,720	8,079	250	7,829
1989	504	8,280	8,784	930	7,854
1990	695	8,563	9,258	434	8,824
1991	77	11,385	11,462	525	10,937
1992	99	9,577	9,676	789	8,887
1993	77	9,817	9,894	668	9,226

U.S. SUPPLY OF AMERICAN LOBSTERS,1984-93 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
			Thousand pounds		
1984	43,967 46,152 46,053 45,558 48,643 52,926 61,017 63,337 55,841 56,513	56,268 61,666 67,293 70,207 72,638 42,530 49,592 65,381 59,335 55,570	100,235 107,818 113,346 115,765 121,281 95,456 110,609 128,718 115,176 112,083	(3) (3) (3) (3) (3) 10,310 15,274 21,485 20,332 20,354	100,235 107,818 113,346 115,765 121,281 85,146 95,335 107,233 94,844 91,729

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobster and were converted to round (live) by using these conversion factors: 1.00, Whole; 4.50, meat; and 4.64, canned. (2) Domestic exports converted to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors. (3) Not reported.



U.S. SUPPLY OF SPINY LOBSTERS,1984-93 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
			-Thousand pounds-		
1984 1985 1986 1987 1988 1989 1990 1991 1992 1993	6,303 5,311 6,775 5,755 7,166 8,125 7,120 7,096 4,872 6,076	147,069 148,577 145,097 145,706 132,071 87,793 88,426 81,332 77,848 70,884	153,372 153,888 151,872 151,461 139,237 95,918 95,546 88,428 82,720 76,960	(3) (3) (3) (3) (3) 6,373 6,948 3,388 2,001	153,372 153,888 151,872 151,461 139,237 89,545 88,598 85,040 80,719 75,654

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned. (2) Domestic exports converted to round weight by using: 1.00, whole; 3.00, tails, 4.00, other; 4.50, canned. Foreign exports converted using import factors. (3) Not reported.

U.S. SUPPLY OF OYSTERS, 1984-93 (Meat weight)

	U.S. commerc	ial landings				
Year			Imports	Total	Exports	Total
	Eastern	Pacific (1)	(2)			supply
			Thousand	pounds		
1984	46,035	8,739 [36,086	90,860	(3)	90,860
1985	43,085	7,796	45,926	96,807	(3)	96,807
1986	39,140	9,629	50,038	98,807	(3)	98,807
1987	29,957	9,850	52,085	91,892	(3)	91,892
1988	23,916	7,976	46,414	78,306	(3)	78,306
1989	21,398	7,852	37,662	66,912	1,090	65,822
1990	18,395	10,798	27,546	56,739	1,004	55,735
1991	21,933	9,926	15,674	47,533	739	46,794
1992	29,654	6,502	14,891	51,047	797	50,250
1993	27,199	6,376	15,285	48,860	1,131	47,729

(1) Includes Western and Eastern oyster landings for Washington and California. (2) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. (3) Not reported.



U.S. SUPPLY OF SCALLOP MEATS, 1984-93 (Meat weight)

	U.S. co	ommercial la	andings		:		
Year				Imports	Total	Exports	Total :
	Bay	Calico	Sea				supply
			<u>Th</u> o	usand pound:	<u>s</u>		
1984	1,728	39,330	18,427	27,270	86,755	(1)	86,755
1985	1,331	12,513	15,829	42,035	71,708	1,116	70,592
11986	735	1,616	19,992	47,916	70,259	1,205	69,054
1987	580	8,155	32,038	39,934	80,707	1,343	79,364
[1988]	569	11,868	30,557	32,039	75 , 033	1,369	73,664
1989	274	6,580	33,757	40,874	81,485	2,498	78,987
1990	539	1,135	39,917	39,839	81,430	7,099	74,331
1991	438	(2)	39,302	29,528	69,268	7,083	62,185
1992	356	(2)	33,528	38,682	72,566	3,589	68,977
1993	522	(2)	18,116	51,973	70,611	4,147	66,464

- (1) Not reported
- (2) Confidential data.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1984-93 (Heads-off weight)

				Export	s (1)	
Year	U.S. Commercial landings (3)	Imports (2)	Total	Fresh and frozen	Canned	Total supply
			Thousa	nd pounds		
1984	188,132	422,340	610,472	21,030	5,561	583,881
1985	207,239	452,232	659,471	23,443	3,497	632,531
1986	244,409	492,005	736,414	26,198	4,252	705,964
1987	223,514	583,030	806,544	28,885	4,928	772,731
1988	203,350	598,210	801,560	30,280	4,504	766,776
1989	215,825	563,523	779,348	31,715	4,341	743,292
1990	213,899	579,427	793,326	54,186	5,497	733,643
1991	198,115	632,775	830,890	82,325	4,861	743,704
1992	207,086	694,254	901,340	77,672	3,932	819,736
1993	180,687	708,683	889,370	43,651	5,219	840,500

(1) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18; other, 2.40; and canned, 2.02; foreign--fresh and frozen, 1.00; canned, 2.52; and other, 2.40.

(2) Imports were converted to heads-off weight by using these conversion factors: breaded, 0.63; shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.

(3) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf, 0.629; and New England, Pacific and other, 0.57.



U.S. SUPPLY OF CANNED SHRIMP, 1984-93 (Canned weight)

		(Odimice	a weight)		
Year	U.S. pack	Imports	Total	Exports	Total supply
			Thousand pounds		
1984	7,246 4,001 4,596 4,382 4,476 2,623 710 632	13,580 17,088 15,757 17,132 14,138 11,315 9,735 9,361	20,826 21,089 20,353 21,514 18,614 13,938 10,445 9,993	2,745 1,698 2,077 2,419 2,187 2,128 2,670 2,352	18,081 19,391 18,276 19,095 16,427 11,810 7,775 ,7,641
1992	640 658	9,273 8,170	9,913 8,828	1,931 2,557	7,982 6,271

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1984-93 (Product weight)

		11.10-000 110	<u> </u>	·	
Year	Domestic production (1)	Imports (2)	Total	Exports	Total supply
			-Thousand pounds		
1984	877,566	166,888	1,044,454	41,590	1,002,864
1985	883,196	510,654	1,393,850	69,974	1,323,876
1986	799,826	370,548	1,170,374	77,972	1,092,402
1987	911,622	393,730	1,305,352	104,086	1,201,266
1988	755,520	265,310	1,020,830	153,946	866,884
1989	734,736	171,112	905,848	107,350	798,498
1990	670,328	239,426	909,754	141,888	767,866
1991	697,520	158,916	856,436	206,320	650,116
1992	691,016	150,911	841,927	258,511	583,416
1993	812,332	760,664	1,572,996	212,989	1,360,007

⁽¹⁾ Includes shellfish meal production plus the production of U.S. solubles. (2) Data do not include imports of fish solubles.

Note: -- Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half.

U.S. SUPPLY OF FISH MEAL, 1984-93 (Product weight)

		(1 TOGBOL WC	9,		
Year	Domestic production (1)	Imports	Total	Exports	Total supply
			-Thousand pounds	5	
1984	751,528	166,888	918,416	41,590	876,826
1985	721,682	510,654	1,232,336	69,974	1,162,362
1986	702,194	370,548	1,072,742	77,972	994,770
1987	*786,978	393,730	393,730	104,086	289,644
]1988	643,796	265,310	909,106	153,946	755,160
1989	618,382	171,112	789,494	107,350	682,144
1990	577,498	239,426	816,924	141,888	675,036
1991	612,716	158,916	771,632	206,320	565,312
1992	644,512	150,911	795,423	258,511	536,912
1993	748,880	760,664	1,509,544	212,989	1,296,555

⁽¹⁾ Includes shellfish meal. *Record. Records--1968 imports: 1,710,570,000 lb; 1968 total supply 2,180,842,000 lb.

U.S. SUPPLY OF FISH OILS, 1984-93

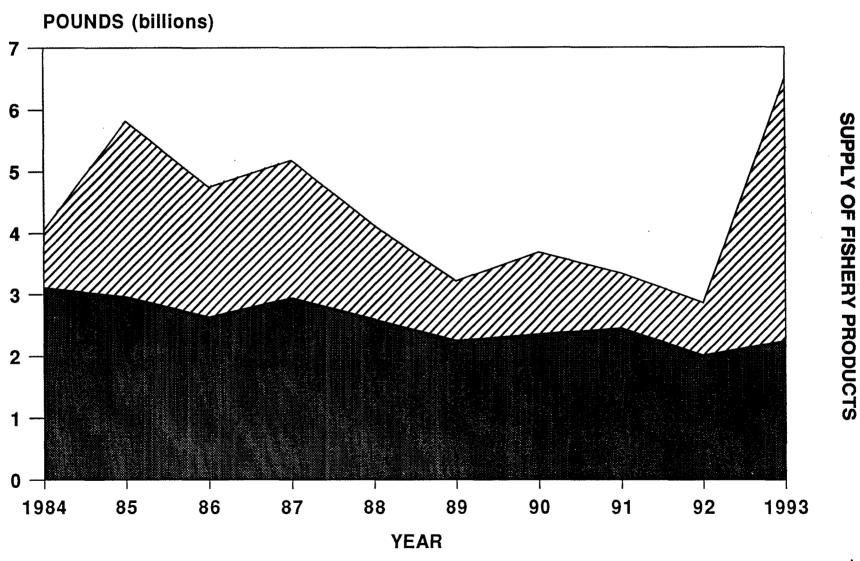
		OF TET OF TION	, OILO, 100 T 00		
Year	Domestic production	Imports	Total	Exports	Total supply
			-Thousand pounds-		
1984	372,804 [13,426	386,230	399,427	(1)
1985	285,077	17,254	302,331	279,107	23,224
1986	336,708	19,212	355,920	192,218	163,702
1987	298,496	25,697	324,193	249,246	74,947
1988	224,733	27,667	252,400	150,002	102,398
1989	225,478	25,449	250,927	198,009	52,918
1990	281,949	36,702	318,651	236,589	82,062
1991	267,345	21,828	289,173	254,525	34,648
1992	184,725	23,772	208,497	177,444	31,053
1993	293,373	26,028	319,401	184,488	134,913

⁽¹⁾ The 1984 exports, which included prior year stocks, exceed domestic production plus imports.

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SUPPLY OF INDUSTRIAL FISHERY PRODUCTS (ROUND WEIGHT) 1984 - 1993



PER CAPITA

U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-93

Year	Civilian resident		Per capita cons	sumption	
lear	population July 1 (1)	Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	110201 (2)	· · · · · · · · · · · · · · · · · · ·	ds, edible meat-	
1909 (5)	90.5	4.3 (2.7	*4.0	11.0
1910	92.2	4.5	2.8	3.9	11.2
1911	93.9	4.8	2.8	3.7	11.3
1912	95.3 97.2	5.0 5.3	2.9 2.9	3.4 3.3	11.3 11.5
1914	99.1	5.6	3.0	3.1	11.7
1915	100.5	5.8	2.4	3.0	11.2
1916	102.0 103.3	6.0 6.2	2.2 2.0	2.8 2.7	11.0 10.9
1918	103.2	6.4	2.0	2.5	10.9
1919	104.5	6.4	2.8	2.4	11.6
1920	106.5 108.5	6.3 6.2	3.2 2.2	2.3 2.1	11.8 10.5
1922	110.0	6.1	3.2	2.0	11.3
1923	111.9	6.0	2.9	1.8	10.7
1924	114.1 115.8	6.1 6.3	3.2 3.2	1.7 1.6	11.0 11.1
1926	117.4	6.6	3.4	1.4	11.4
1927	119.0	7.0	3.9	1.3	12.2
11928	120.5 121.8	7.1 6.9	3.9 3.9	$ \begin{array}{c} 1.1 \\ 1.1 \end{array} $	12.1 11.9
1930	122.9	5.8	3.4	1.0	10.2
1931	123.9	4.9	3.2	0.7	8.8
1932	124.7 125.4	4.3	3.4 3.9	0.7 0.6	8.4 8.7
1934	126.2	4.3	4.2	0.7	9.2
1935	127.1	5.1	4.7	0.7	10.5
1936	127.9 128.6	5.2 5.6	*5.8 5.3	0.7 0.9	11.7 11.8
1938	129.6	5.2	4.8	0.8	10.8
11939	130.7	5.3	4.7	0.7	10.7
1940	132.1	5.7 6.3	4.6 4.2	0.7 0.7	11.0 11.2
1942	131.4	5.2	2.9	0.6	8.7
11943	128.0	5.5 5.5	1.8 2.6	0.6	7.9
1944	127.2 128.1	6.6	2.6	0.6 0.7	8.7 9.9
1946	138.9	5.9	4.2	0.7	10.8
1947	143.1 145.7	5.8 6.0	3.8 4.4	0.7	10.3
1948	143.7	5.8	4.4	0.7	11.1
1950	150.8	6.3	4.9	0.6	11.8
1951	151.6 153.9	6.3 6.2	4.3 4.3	0.6 0.7	11.2 11.2
1953	156.6	6.4	4.3	0.7	11.2
1954	159.7	6.2	4.3	0.7	11.2
1955	163.0 166.1	5.9 5.7	3.9 4.0	0.7 0.7	10.5 10.4
1957	169.1	5.5	4.0	0.7	10.2
1958	172.2	5.7	4.3	0.6	10.6
1959	175.3 178.1	5.9 5.7	4.4 4.0	0.6	10.9 10.3
1961	181.1	5.9	4.3	0.5	10.7
1962	183.7	5.8	4.3 4.4	0.5 0.5	10.6
1963	186.5 189.1	5.8 5.9	4.4	0.5	10.7 10.5
1965	191.6	6.0	4.3	0.5	10.8
1966	193.4 195.3	6.1	4.3 4.3	0.5 0.5	10.9
1968	195.3	5.8 6.2	4.3	0.5	10.6 11.0
1969	199.1	6.6	4.2	0.4	11.2
L	1	l		<u> </u>	1

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-93 - Continued

Year	Civilian resident	Per capita consumption				
	population	Fresh and	Canned	Cured	Total	
	July 1 (1)	frozen (2)	(3)	(4)		
	Million persons		<u>-Pound</u> :	s, edible meat-		
1970	201.9	6.9	4.5	0.4	11.8	
1971	204.9	6.7	4.3	0.5	` 11.5	
1972	207.5	7.1	4.9	0.5	12.5	
1973	209.6	7.4	5.0	0.4	12.8	
1974	211.6	6.9	4.7	0.5	12.1	
1975	213.8	7.5	4.3	0.4	12.2	
1976	215.9	8.2	4.2	0.5	12.9	
1977	218.1	7.7	4.6	0.4	12.7	
1978	220.5	8.1	5.0	0.3	13.4	
1979	223.0	7.8	4.8	0.4	13.0	
1980	225.6	7.9	4.3	0.3	12.5	
1981	227.8	7.8	4.6	0.3	12.7	
1982	230.0	7.9	4.3	0.3	12.5	
1983	232.1	8.4	4.7	0.3	13.4	
1984	234.1	9.0	4.9	0.3	14.2	
1985	236.2	9.8	5.0	0.3	15.1	
1986	238.4	9.8	5.4	0.3	15.5	
1987	240.6	*10.7	5.2	0.3	*16.2	
1988	242.8	10.0	4.9	0.3	15.2	
1989	245.1	10.2	5.1	0.3	15.6	
1990	247.8	9.6	5.1	0.3	15.0	
1991	250.5	9.7	4.9	0.3	14.9	
1992	253.5	9.9	4.6	0.3	14.8	
1993	256.4	10.2	4.5	0.3	15.0	

⁽¹⁾ Resident population for 1909 to 1929 and civilian resident population for 1930 to date. Population estimates for the years 1980 to 1991 are revised to reflect changes between the 1980 and 1990 decennial population enumeration. Changes did not significantly alter pounds consumed per capita.

per capita.

(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish. Domestic landings used in calculating consumption are preliminary after 1977.

(3) Canned fish consumption for 1911 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 to 1928 is estimated.

(5) Data for 1909 estimate based on the 1908 census and foreign trade data.

^{*}Record.

PER CAPITA

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1973-93

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
			<u>Po</u> u	inds		
1973	0.4	0.5	3.1	0.5	0.5	5.0
1974	0.3	0.4	3.1	0.5	0.4	4.7
1975	0.3	0.2	2.9	0.5	0.4	4.3
1976	0.3	0.3	2.8	0.4	0.4	4.2
1977	0.5	0.3	2.8	0.6	0.4	4.6
1978	0.6	0.3	3.3	0.5	0.3	5.0
1979	0.5	0.3	3.2	0.5	0.3	4.8
1980	0.5	0.3	3.0	0.4	0.1	4.3
1981	0.5	0.4	3.0	0.4	0.3	4.6
1982	0.5	0.3	2.8	0.4	0.3	4.3
1983	0.5	0.2	3.2	0.4	0.4	4.7
1984	0.6	0.2	3.2	0.4	0.5	4.9
1985	0.5	0.3	3.3	0.5	0.4	5.0
1986	0.5	0.3	3.6	0.5	0.5	5.4
[1987	0.4	0.3	3.5	0.5	0.5	5.2
1988	0.3	0.3	3.6	0.4	0.3	4.9
1989	0.3	0.3	3.9	0.4	0.2	5.1
[1990	0.4	0.3	3.7	0.3	0.4	5.1
1991	0.5	0.2	3.6	0.4	0.2	4.9
1992	0.5	0.2	3.5	0.3	0.1	4.6
1993	0.4	0.2	3.5	0.3	0.1	4.5

NOTE: -- Domestic landings data used in calculating these data are preliminary after 1977.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1973-93

Year	Fillets and steaks (1)	Sticks and portions	Shrimp all preparation
		<u>Pounds (2)</u>	
1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1982 1983 1984 1985 1986 1986 1987 1988	2.5 2.1 2.4 2.5 2.7 2.7 2.4 2.4 2.5 2.5 3.0 3.2 *3.6 3.2	2.0 1.8 1.8 2.0 2.0 2.2 *2.2 2.0 1.8 1.7 1.8 1.8 1.8	1.4 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.7 1.9 2.0 2.2 2.4
1989	3.1	1.5	2.3
1990	3.1 3.0 2.9	1.5 1.2 0.9 1.0	2.2 2.4 *2.5

Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.
 Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.

Note: -- Domestic landings data used in calculating these data are preliminary after 1977.

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH. 1958-93 (1)

0.0 AIV	IUAL PER CAPITA U	SE OF COMMENT	SIAL FIGHT AND SH	LLL 1011, 1930-9	3 (1)		
Year	Total population including armed	Total U.S.	Per capita utilization				
	forces overseas	supply	Commercial	Imports	Total		
	July 1		landings	z[-0200	20022		
<u>-</u>	Million	Million	Tundings		L		
		,		_ ,			
	persons	pounds		Pounds			
1958	174.9	7,526	27.1	15.9	43.0		
1959	177.8	8,460	28.8	18.8	47.6		
1960	180.7	8,223	27.3	18.2	45.5		
1961	183.7	9,570	28.2	23.9	52.1		
1962	186.5	10,408	28.7	27.1	55.8		
1963	189.2	11,434	25.6	34.8	60.4		
1964	191.9	12,031	23.7	39.0	62.7		
1965	194.3	10,535	24.6	29.6	54.2		
1966	196.6	12,469	22.2	41.2	63.4		
1967	198.7	13,991	20.4	50.0	70.4		
1968	200.7	17,381	20.7	65.9	86.6		
1969	202.7	11,847	21.4	37.0	58.4		
		,					
1970	205.1	11,474	24.0	31.9	55.9		
1971	207.7	11,804	24.1	32.7	56.8		
1972	209.9	13,849	22.9	43.1	66.0		
[1973	211.9	10,378	22.9	26.1	49.0		
1974	213.9	9,875	23.2	23.0	46.2		
1975	216.0	10,164	22.6	24.5	47.1		
1976	218.0	11,593	24.7	28.5	53.2		
1977	220.2	10,652	23.9	24.4	48.3		
1978	222.6	11,509	27.1	24.6	51.7		
1979	225.1	11,831	27.9	24.7	52.6		
1980	227.7	11,357	28.5	21.4	49.9		
1981	230.0	11,353	26.0	23.4	49.4		
1982	232.2	12,011	27.4	24.3	51.7		
1983	234.3	12,352	27.5	25.2	52.7		
1984	236.3	12,552	27.3	25.8	53.1		
1985	238.5	15,061	26.3	36.8	63.1		
1986	240.7	14,368	25.1	34.6	59.7		
1987	242.8	15,744	28.4	36.4	64.8		
1988	245.0	14,628	29.3	30.4	59.7		
1989	247.3	15,485	34.2	28.4	62.6		
i i		· 1					
1990	249.9	16,348	37.6	27.8	65.4		
1991	252.7	16,363	37.5	27.3	64.8		
1992	255.5	16,106	37.7	25.3	63.0		
1993	258.2	20,334	39.7	38.2	77.9		

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1988-90 AVERAGE

· · · · · · · · · · · · · · · · · · ·	DI REGIC	NA AND COOK	TRY, 1988-90 AVERAGE		
Region and country	Estimated equiv	live weight alent	Region and country	Estimated equiv	live weight alent
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada	24.3	53.6	Greece	19.1	42.1
Greenland	80.2	176.8	Hungary	4.7	10.4
St. Pierre and			Iceland	92.1	203.0
Miquelon	68.2	150.4	Ireland	15.9	35.1
United States	21.3	47.0	Italy Malta	20.1 20.3	44.3 44.8
Caribbean:			Netherlands	9.8	21.6
Antigua	46.0	101.4	Norway	41.1	90.6
Aruba	40.7	89.7	Poland	12.4	27.3
Bahamas	20.4	45.0	Portugal	60.2	132.7
Barbados	30.4 45.3	67.0 99.9	Romania	7.4 38.0	16.3 83.8
Bermuda British Virgin Islands.	86.0	189.6	SpainSweden	26.9	59.3
Cayman Islands	26.5	58.4	Switzerland	13.3	29.3
Cuba	19.8	43.7	United Kingdom	19.9	43.9
Dominica	21.1	46.5	Yugoslavia	4.1	9.0
Dominican Republic	5.9	13.0	Former USSR	27.7	61.1
GrenadaGuadeloupe	25.5 43.4	56.2 95.7	Near East:		
Haiti	4.2	9.3	Afghanistan	0.1	0.2
Jamaica	18.2	40.1	Bahrain	19.6	43.2
Martinique	42.1	92.8	Cyprus	14.6	32.2
Montserrat	10.5	23.1	Egypt	8.3	18.3
Netherland Antilles	27.3	60.2	Iran	4.4	9.7
St. Christopher-Nevis Saint Lucia	45.1 18.8	99.4 41.4	Iraq Israel	1.0 20.6	2.2 45.4
St. Vincent	10.8	23.8	Jordan	2.7	6.0
Trinidad-Tobago	6.9	15.2	Kuwait	9.1	20.1
<u>-</u>			Lebanon	0.6	1.3
Latin America:		1, 7	Libya	3.0	6.6
Argentina	6.2	13.7 17.0	Oman	23.7 13.8	52.2 30.4
Belize Bolivia	7.7	2.2	Qatar Saudi Arabia	7.3	16.1
Brazil	5.7	12.6	Sudan	1.4	3.1
Chile	24.0	52.9	Syria	0.5	1.1
Colombia	2.8	6.2	Turkey	6.3	13.9
Costa Rica	5.1	11.2	United Arab Emirates.	26.3	58.0
EcuadorEl Salvador	9.0 1.6	19.8 3.5	Yemen Republic	5.7	12.6
French Guiana	41.5		Far East:		
Guatemala	0.5	1.1	Bangladesh	7.3	16.1
Guyana	41.3	91.0	Brunei	29.0	63.9
Honduras	1.1	2.4	Burma	15.3	33.7
Mexico	11.0 0.7	24.3 1.5	Cambodia	10.8 9.3	23.8 20.5
Nicaragua Panama	15.3	33.7	China	53.5	117.9
Paraguay	2.8	6.2	India	3.7	8.2
Peru	27.2	60.0	Indonesia	14.7	32.4
Suriname	6.6	14.6	Japan	72.0	158.7
Uruguay	4.3	9.5	Laos	4.9	10.8
Venezuela	14.1	31.1	Macao Maldives	25.2 33.1	55.6 73.0
Europe:	l		Malaysia	27.5	60.6
Albania	2.9	6.4	Mongolia	1.0	2.2
Austria	8.8	19.4	Nepal	0.7	1.5
Belgium and Luxembourg.	18.8	41.4	North Korea	44.2	97.4
Bulgaria	5.2	11.5	Pakistan	2.0	4.4
Former Czechoslovakia	7.2	15.9	Philippines	34.6 29.3	76.3 64.6
Denmark	21.2	46.7	South Korea	47.6	104.9
Faeroe Island	85.2	187.8	Sri Lanka	14.6	32.2
Finland	30.6	67.5	Taiwan	39.1	86.2
France	31.1	68.6	Thailand	20.7	45.6
Germany	12.2	26.9	Vietnam	12.4	27.3

See note at end of table.

(Continued)

PER CAPITA

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1988-90 AVERAGE - Continued

BY REGION AND COUNTRY, 19	100-30 AVERAGE - CONTINUED				
Region and country	Estimated live weight equivalent				
	Kilograms	Pounds			
Africa:					
Algeria	4.2	_9.3			
Angola	23.3	51.4			
Benin	9.9	21.8			
Botswana	3.1	6.8			
Burkina	2.1	4.6 5.7			
Burundi	13.5	29.8			
Cape Verde	13.0	28.7			
Central African Republic	5.0	11.0			
Chad	11.3	24.9			
Comoros	13.9	30.6			
Congo	35.7	78.7			
Djibouti	3.2	7.1			
Equatorial Guinea	19.1	42.1			
Ethiopia	0.1	0.2			
Gabon	31.2	68.8			
Gambia	17.8	39.2			
Ghana	26.4	58.2			
Guinea	7.6	16.8			
Guinea-Bissau	5.5	12.1			
Ivory Coast	15.5	34.2			
Kenya	5.7	12.6			
Lesotho	1.6	3.5 29.5			
Liberia	13.4 8.2	29.5 18.1			
Malawi	9.3	20.5			
Mali	7.3	16.1			
Mauritania	9.4	20.7			
Mauritius	19.1	42.1			
Morocco	6.7	14.8			
Mozambique	2.9	6.4			
Namibia	11.7	25.8			
Niger	0.6	1.3			
Nigeria	7.9	17.4			
Reunion	24.2	53.4			
Rwanda	0.3 (0.7			
Sao Tome	32.2	71.0			
Senegal	24.4	53.8			
Seychelles	57.7	127.2			
Sierra Leone	13.2	29.1			
Somalia	1.6	3.5			
South Africa	9.4 88.3	20.7 194.7			
St. Helena	0.2	0.4			
Tanzania	15.2	33.5			
Togo	14.9	32.8			
Tunisia	10.2	22.5			
Uganda	13.2	29.1			
Zaire	7.7	17.0			
Zambia	8.1	17.9			
Zimbabwe	2.6	5.7			
Oceania:					
Australia	18.8	41.4			
Fiji	44.6	98.3			
French Polynesia	36.0	79.4			
New Caledonia	21.4	47.2			
New Zealand	28.9	63.7			
Papua New Guinea	22.8	50.3			
Solomon Islands	59.8	131.8			
Tonga	28.0	61.7			
Vanuatu	30.4	67.0			
Western Samoa	21.7	47.8			
m = 1 .1	12.4	A			
World.	13.4	29.5			

Note: -- Data for most countries are tentative. Aquatic plants are included where applicable.

Source: -- Food and Agriculture Organization of the United Nations (FAO) Yearbook of Fishery Statistics, 1992, vol. 75, Rome.

The Exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

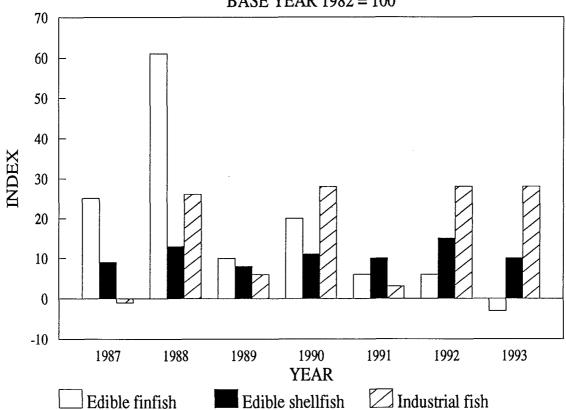
The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the distance from shore tables on pages 6-9. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1982 (the base year). That number was then divided by the 1982 value to obtain the final index:

(100 x Current price X 1982 quantity) = Index 1982 Annual Value

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for \$0.75 a pound in 1986 and a \$1.00 a pound in 1982 would have an index of 75 in 1986. In 1993, if the price of the same species increased to \$1.07, the index in 1993 would be 107.

EXVESSEL PRICE INDEX, 1987-1993





INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1987-93 (1982=100)

	T	·	02-100)	r		r	
Species	1987 (1)	1988 (1)	1989 (1)	1990 (1)	1991 (1)	1992 (1)	1993
Groundfish, et al:		Ì		·			
Cod	88	66	73	79	106	105	105
Haddock	257	220	239	220	227	219	277
Pollock:	}	•				1	
Atlantic	175	150	191	223	255	297	299
Alaska	110	121	134	151	149	194	194
Flounders	70	55	66	112	97	60	61
Total groundfish, et al.	101	84	96	121	122	108	115
Halibut	135	104	131	159	175	91	115
Sea herring	144	162	74	97	86	86	63
Salmon:							
Chinook	110	141	85	101	101	112	81
Chum	113	206	98	109	73	112	95
Pink	147	319	159	138	57	69	59
Sockeye	177	258	142	140	88	136	80
Coho	145	198	77	105	72	84	74
Total salmon	151	232	120	125	82	113	78
Swordfish	130	121	119	108	102	111	92
Tuna:	130	121	119	108	102		92
Albacore	111	124	126	127	114	147	132
Bluefin	483	587	612	572	1,158	477	766
Skipjack	80	103	86	85	83	72	85
Vollariein	92	1	101	112	116	96	112
Yellowfin		114					
Total tuna	97	121	108	112	126	97	117
Total edible finfish	125	161	110	120	106	106	97
Clams:		}					
Hard	130	164	145	127	142	135	113
Ocean quahog	106	103	103	111	124	124	128
Soft	145	150	159	213	192	222	233
Surf	88	88	88	86	84	83	88
Total clams	118	134	127	127	132	133	126
Crabs:							
Blue	142	153	155	152	131	183	201
Dungeness	138	122	118	162	159	124	95
King	114	135	135	145	99	139	127
Snow	82	89	92	83	53	60	78
Total crabs	113	124	125	131	99	124	123
American lobster	127	130	122	110	113	125	117
Oysters	165	175	198	228	219	225	183
Scallops:	100	***	1,5	2.0		2.0	103
Bay	140	155	158	149	157	150	161
Calico	106	102	88	110	(2)	(2)	(2)
Sea	113	115	107	105	110	132	159
Total scallops	114	116	109	109	135	118	141
Shrimp:	1]	3.0	7.	0.5		22
Gulf and South Atlantic.	89	90	79	79	87	86	80
Other	155	102	92	113	130	113	128
Total shrimp	92	91	89	81	89	88	82
Total edible shellfish	109	113	108	111	110	115	110
Total edible fish							
and shellfish	116	134	109	115	108	111	104
Industrial fish,	1						
Menhaden	99	126	106	128	103	128	128
All fish and shellfish	115	134	109	116	108	112	105
			L				

⁽¹⁾ Revised.

⁽²⁾ Confidential data.

VALUE ADDED

SUMMARY OF 1993 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

		FIGHTER	DUCTO IN THE	CHILED SIA	163(1)			
Sector	Purchase	Mark-up	Total	Value	Value	Value	Value	Offshore
or type	of	of	mark-up	added as	added	of	added	fleet &
of	fishery	fishery	within	percent of	within	sales by	contri-	exported
activity	inputs	inputs	sector	total	sector	sector	bution	fishery
				mark-up				products
	Thousand	Percentage	Thousand	Percentage	Thousand	Thousand	<u>Percentage</u>	Thousand
	Dollars	of Fishery	<u>Dollars</u>		<u>Dollars</u>	Dollars	of GNP Con-	Dollars
		Inputs]				tribution	
Domestic Harvest:						** *** ***	10.0	
Edible	-	100.0	\$3,361,648	62.86	\$2,113,269	\$3,361,648	10.7 0.3	Í
Industrial		100.0	\$103,258	60.93	\$62,920	\$103,258	0.3	
Harvest not landed in U.S		100.0	\$201,909	67.30	\$135,892	\$201,909	0.7	\$201,909
randed in U.S	-	100.0	\$201,909	07.30	\$133,692	·		7201,909
Imports, Unprocessed	\$2,566,453	-	-	-	-	\$2,566,453	-	
Exports, Unprocessed	_ =	-	-	-	-	-	-	\$1,140,668
Primary Wholesale			1					i i
and Processing	\$4,890,691	105.7	\$5,167,204	51.7	\$2,670,584	\$10,057,895	13.5	
Imports, Processed	\$3,469,165	_	-	-	-	\$3,469,165	-	
Exports, Processed	-	-	-	-	_	-	-	\$1,927,027
Secondary Wholesale								
and Processing:	}							[
Edible	\$11,333,394	58.3	\$6,611,969	29.1	\$1,921,231	\$17,945,363	9.7	1
Industrial	\$266,639	58.3	\$155,559	29.1	\$45,200	\$422,198	0.2	
Retail Trade from								
Food Service	\$9,086,714	182.7	\$16,603,741	67.0	\$11,116,260	\$25,690,454	56.2	
Retail Trade	1		ł		ł	,		
from Stores	\$8,858,650	35.3	\$3,130,320	54.4	\$1,702,434	\$11,988,970	8.6	<u> </u>
TOTAL U.S. VALUE								
ADDED ACTIVITY:					\$19,767,790		100.0	

CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS: \$38,101,622

Note. -- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

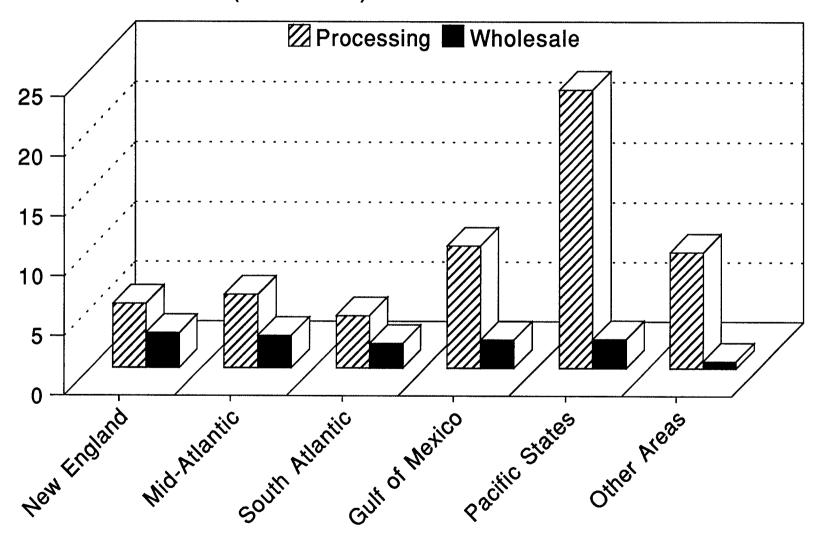
Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Gross National Products (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

⁽¹⁾ Includes industrial products, landings by U.S.-flag vessels at U.S. and foreign ports, and joint ventures.

EMPLOYMENT BY REGION, 1992

EMPLOYEES (thousands)



ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1) AND FISHING BOATS (2) BY REGION AND STATE, 1991 - 1992

		1991				
REGIONS	VESSELS	BOATS	TOTAL	VESSELS	BOATS	TOTAL
Northeast Fisheries:				:		
Connecticut	130	507	637	128	442	570
Delaware	26	278	304	25	349	374
Maine	1,742	5,221	6,963	1,761	5,598	7,359
Maryland (3)	65	_	65	68	-	68
Massachusetts	878	3,864	4,742	858	4,634	5,492
New Hampshire	134	427	561	139	474	613
New Jersey	447	1,408	1,855	487	1,392	1,879
New York	602	2,059	2,661	692	2,931	3,623
Rhode Island	258	1,847	2,105	253	2,751	3,004
Virginia (3)	242	6	248	245	6	251
South Atlantic						
and Gulf Fisheries:			•			
North Carolina	961	5,772	6,733	960	5,257	6,217
South Carolina	370	946	1,316	376	969	1,345
Georgia	372	483	855	326	398	724
Florida	2,394	6,609	9,003	2,264	9,409	11,673
Alabama	411	531	942	409	694	1,103
Mississippi	761	1,145	1,906	885	1,003	1,888
Louisiana	2,945	9,786	12,731	2,824	8,917	11,741
Texas	2,548	2,862	5,410	2,501	2,592	5,093
West Coast Fisheries:						
Washington	2,609	2,627	5,236	2,609	2,607	5,216
Oregon	1,613	1,346	2,959	1,090	1,005	2,095
Alaska	7,416	10,164	17,580	7,433	9,761	17,194
California	3,556	3,136	6,692	3,460	3,110	6,570
Hawaii	NA	NA	NA	NA	NA	NA
Great Lakes			:			
Fisheries: (4)						
Illinois	5	٥	5	5	o	5
Indiana	10	ő	10	10	o	10
Michigan	62	74	136	61	75	136
Minnesota	2	29	31	2	32	34
New York	4	13	17	4	14	18
Ohio	30	25	55	33	21	54
Pennsylvania	NA.	NA Z	NA NA	NA.	NA .	NA NA
Wisconsin	86	33	119	94	16	110

⁽¹⁾ Vessels are documented craft greater than 5 net registered tons.

⁽²⁾ Boats are craft less than 5 net registered tons.

⁽³⁾ Only Federal collected data are available. Inshore data not available.

⁽⁴⁾ Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the state; therefore, may not be an accurate total. Tribal data are not included in this table.

NA -- Not available.

C-066000

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1992

		Processing			Wholesale			Total	
State and area	Plants	Employment	average	Plants	Employment	average	Plants	Employment	average
		Season	Year		Season	Year		Season	Year
					-Number				
New England:	m.c	1 0.00	1 705		010	000	260	0 770	0 (00
Maine	76 11	1,860 399	1,785 399	284 14	913 99	838 88	360 25	2,773 498	2,623 487
New Hampshire Massachusetts	112	2,653	2,568	282	1.477	1,466	394	4,130	4,034
Rhode Island	29	546	546	82	287	273	111	833	819
Connecticut	5	71	71	36	247	247	41	318	318
Total	233	5,529	5,369	698	3,023	2,912	931	8,552	8,281
Mid-Atlantic:									
New York	26	372	363	165	930 420	922 415	191 85	1,302	1,285 1,223
New Jersey Pennsylvania	20 9	825 1,250	808 1,236	65 13	189	177	22	1,245 1,439	1,413
Delaware	(1)	(1)	(1)	9	396	396	وَ	396	396
District of	,	,-,	,-,						
Columbia	-			4	41	41	4	41	41
MarylandVirginia	49 65	1,669 2,280	1,590 2,159	61 49	534 316	471 292	110 114	2,203 2,596	2,061 2,451
-	169	6,396	6, 156	366	2,826	2,714	535	9,222	8,870
Total	703	0,390	0,130	200	2,020	6714	333	3, 426	0,010
North Carolina	85	1,707	1,601	144	558	523	229	2,265	2,124
South Carolina	10	. 98	93	129	462	418	139	560	511
Georgia	14	1,648	1,644	37	107	107	51	1,755	1,751
Florida, East	34	1 067	1 044	162	1,020	1,015	196	2,087	2,059
Coast		1,067	1,044						
Total	143	4,520	4,382	472	2,147	2,063	615	6,667	6,445
Gulf: Florida, West									
Coast	153	2,078	2,067	160	728	722	313	2,806	2,789
Alabama	85	1,696	1,648	27	68	64	112	1,764	1,712
Mississippi	34	1,358	1,345	27	125	121	61	1,483	1,466
Louisiana	199 30	4,566	3,701	375	1,195 457	1,039 423	574	5,761	4,740
Texas		1,509	1,484	117			147	1,966	1,907
Total	501	11,207	10,245	706	2,573	2,369	1,207	13,780	12,614
Pacific:									
Alaska	398	15,200	11,675	14	118	60	412	15,318	11,735
Washington	156	6,053	4,462	130	482	448	286	6,535	4,910
Oregon	49	1,905	1,778	34	86	70	83	1,991	1,848
California	163	5,585	5,346	449	1,885	1,857	612	7,470	7,203
Total	766	28,743	23,261	627	2,571	2,435	1,393	31,314	25,696
Inland States (2),									
Total	58	793	777	34	232	230	92	1,025	1,007
Other Areas or States: (3), Total.	28	8,952	8,952	53	356	356	81	9,308	9,308
Grand Total	1,898	66,140	59,142	2,956	13,728	13,079	4,854	79,868	72,221
/1\ Tagladad adth aba			727772	<u></u>	Tllingia Tod	 			

⁽¹⁾ Included with wholesale. (2) Data covers, Arizona, Colorado, Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Montana, Nevada, South Dakota, Tennessee, West Virginia, Wisconsin, and a partial survey conducted for other States.
(3) Include American Samoa, Guam, Hawaii, and Puerto Rico.

FISHERY PRODUCTS INSPECTION

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1993

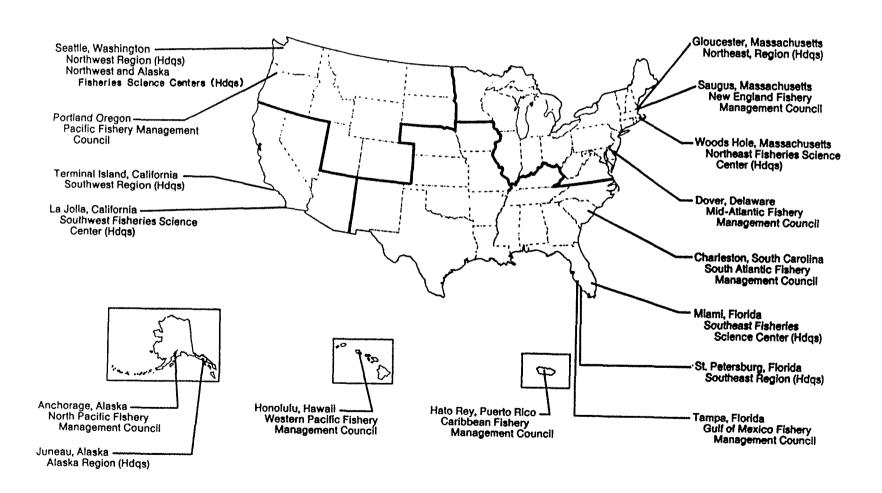
						,	
	Edible fishery products						
Region	Establishme	ents (1)		A	mount inspec	ted	
	SIFE (2)	PUFI (3)	Grade A	PUFI (4)	No mark (5)	Lot (6)	Total
	-Average r	umber-		<u>Th</u>	ousand pound	s	
Northeast	1	49	38,180	190,595	20,557	195,715	445,047
Southeast	0	109	24,095	70,869	22,872	119,893	237,729
West	7	86	28,893	67,588	14,549	193,528	304,558
Total, 1993	8	243		329,052	57,978	509,137	987,335
Total, 1992		245	100,647	329,937	43,778	520,717	995,079

- (1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment, processing techniques, and employment practices.
- (2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment service (SIFE). Products are not processed under inspection.
- (3) Sanitarily inspected fish establishments processing fishery products under USDC inspection.
- (4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Packed Under Federal Inspection" (PUFI) and/or "U.S. Grade A."
- (5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.
- (6) Lot inspected and marked products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Note: -- Table may not add due to rounding.

Source: -- NMFS, Office of Trade and Industry Services, F/TS4.

NMFS Regional Offices NMFS Fisheries Science Centers Regional Fishery Management Councils HDQS Locations



THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson Fishery Conservation and Management Act (MFCMA), Public Law 94-265 as amended (Magnuson Act), provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson Act, the Secretary of State, in cooperation with the Secretary of Commerce negotiates Governing International Fishery Agreements (GIFAs) with foreign nations wishing to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Applicant foreign fishing nations having a GIFA with the United States may submit individual vessel applications to the Department of State requesting permits to fish in the EEZ for any surplus fishery resources managed under the Magnuson Act. In conjunction with an applicant foreign fishing nation's embassy submitting an application to the State Department, officials of an applicant nation must also accept certain general terms and conditions established by the Secretary of Commerce and so notify the Secretary of State, designate a general agent to be responsible for legal process involving any of its vessels fishing subject to U.S. jurisdiction, and designate a representative to be responsible for reviewing and submitting reports and other information concerning fishing by its vessels. The State Department provides copies of applications to the appropriate Regional Fishery Management Council(s), U.S. Coast Guard and National Marine Fisheries Service these entities may review and make recommendations on the applications. A Summary of all applications received is also published in the Federal Register for public review. After an applicant nation has met all the above requirements and been offered and accepted an allocation of surplus fishery resources by the State Department, the National Marine Fisheries Service issues individual vessel permits, as appropriate. These permits are then formally transmitted to the appropriate foreign authorities by the Department of State.

A similar process is employed to handle applications by applicant foreign fishing nations requesting permits for joint ventures, wherein U.S. fishermen catch and sell to foreign fishermen via vessel-to-vessel transfer at sea certain species for which U.S. demand is low relative to the abundance of the species.

FOREIGN FISHING ALLOCATIONS

The total allowable level of foreign fishing (TALFF), if any, for a fishery subject to U.S. exclusive fishery management authority is that portion of the optimum yield (OY) of such fishery that will not be harvested by U.S. vessels. Each assessment of OY and each assessment of the anticipated U.S. harvest is reviewed during the fishing season. Adjustments of TALFF are based on updated information relating to the status of stocks, estimated and actual performance of domestic and foreign fleets, and other relevant factors.

FOREIGN FISHING FEES

Foreign nations engaged in fisheries subject to U.S. jurisdiction are charged permit fees, poundage fees, and a foreign fee surcharge as appropriate.

Foreign nations requesting authorization for their vessels to operate in the EEZ remit an initial application fee of \$354.00 for each vessel for which a permit is requested. This amount is based on the administrative costs of processing applications and issuing permits.

For those vessels that directly harvest species in accordance with their allocation of TALFF, poundage fee bills based on the quantities and species of fish harvested by such vessels are issued on a quarterly basis against financial guarantees established by the respective foreign fishing nations. In the case of joint ventures, no such fees are charged for the U.S. harvested fish received by foreign vessels. Instead, a price per ton the target species is agreed upon by the joint venture partners prior to the start of fishing operations, with payments to U.S. fishermen usually being made as draws on financial guarantees established by the foreign joint venture partner.

All foreign vessels fishing subject to U.S. jurisdiction must have U.S. observers aboard to ensure compliance with U.S. regulations governing foreign

THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

fishing. Observer fees, which cover all U.S. costs of placing observers aboard foreign vessels, are computed on the basis of actual observer trips, and either paid in advance or via draws made on financial guarantees established by the respective foreign fishing nations.

A foreign fee surcharge may be imposed on permit and poundage fees to capitalize a fund to compensate U.S. fishermen whose vessels and/or gear are damaged or lost due to conflicts with foreign vessels in the EEZ. Since the fund is currently fully capitalized, the surcharge has been waived until further notice.

FMPs and PMPs

Under the Magnuson Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils develop FMPs, which cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary of Commerce is empowered to prepare plans in the Atlantic and Gulf of Mexico for highly migratory species. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery for which a Council has not duly produced an FMP. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1993, five PMPs were in effect, many of which have been amended since first being implemented.

Foreign Trawl Fisheries of the Northwest Atlantic Hake Fisheries of the Northwestern Atlantic Pacific Billfishes and Oceanic Sharks Bering Sea Herring Bering Sea Snails

The Atlantic sharks, swordfish and billfish fisheries are currently being managed by the Secretary under the Magnuson Act and the Western Atlantic bluefin tuna fishery is managed under the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson Act, all Council-prepared FMPs must be reviewed by the Secretary of Commerce. After FMPs have been approved under section 304 of the Magnuson Act, they are implemented by federal regulations under section 305 of the Act. As of December 31, 1993, there are 34 fishery management plans in place. The FMPs are listed below. Many FMPs are amended by the Council and submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1003

Northeast Multispecies American Lobster (**) Atlantic Billfishes Atlantic Bluefish Atlantic Coast Red Drum Atlantic Mackerel, Squid, and Butterfish Atlantic Salmon Atlantic Sea Scallops Atlantic Sharks Atlantic Surf Clams and Ocean Quahogs Summer Flounder (**) Swordfish Gulf and South Atlantic Spiny Lobster Caribbean Shallow Water Reef Fish (**) Gulf and South Atlantic Corals Gulf of Mexico Reef Fish (**) Gulf of Mexico Shrimp (**) Gulf of Mexico Stone Crab Coastal Migratory Pelagics Caribbean Spiny Lobster South Atlantic Snapper/Grouper South Atlantic Shrimp Northern Anchovy King and Tanner Crab Commercial and Recreational Salmon High Seas Salmon Pacific Coast Groundfish (**) Gulf of Alaska Groundfish (**) Bering Sea and Aleutian Islands Groundfish (**) Western Pacific Crustaceans Western Pacific Precious Corals Western Pacific Bottomfish and Seamount Groundfish Gulf of Mexico Red Drum

During 1993, 515 regulatory actions were processed via the <u>Federal Register</u> to implement FMP fishery management actions and rules for foreign fishing. This number includes hearings, meetings, and correction notices.

Western Pacific Pelagics

THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

REGIONAL FISHERY MANAGEMENT COUNCILS

Council	<u>States</u>	Telephone Number	Executive Director
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	617-231-0422	Douglas G. Marshall Suntaug Office Park 5 Broadway (Rt. 1) Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, and Virginia)	302-674-2331	David R. Keifer Federal Bidg., Rm. 2115 300 S. New St. Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia, and Florida)	803-571-4366	Robert K. Mahood Southpark Building Suite 306 1 Southpark Circle Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana, Mississippi, Alabama, and Florida)	813-228-2815	Wayne E. Swingle Lincoln Center, Suite 881 5401 W. Kennedy Blvd. Tampa, FL 33609
CARIBBEAN	(Virgin Islands and the Commonwealth of Puerto Rico)	809-753-6910	Miguel A. Rolon 268 Ave, Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352	Lawrence D. Six Metro Center, Suite 420 2000 S.W. First Avenue Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809	Clarence G. Pautzke 605 W.4th Ave., Rm. 306 P.O. Box 103136 Anchorage, AK 99510
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and the Northern Marianas Islands)	808-541-1974	Kitty M. Simonds 1164 Bishop St., Rm.1405 Honolulu, HI 96813

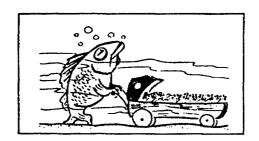
OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: NORTH ATLANTIC, BY SPECIES AND COUNTRY, 1993 (1)

Item	Loligo squid (2)	Illex squid (2)	Atlantic mackerel (3)	Butter- fish (2)
		Metric tons	, round weight	
Max Optimum	-			
yield (OY)	44,000	30,000	N/A	16,000
ABC	44,000	30,000	850,000	16,000
Initial Optimum				
yield	44,000	30,000	120,000	10,000
DAH	44,000	30,000	120,000	10,000
DAP	44,000	30,000	50,000	10,000
JVP	-	-	55,000	-
Reserve	N/A	N/A	N/A	N/A
TALFF	-	-	-	-

- (1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; and TALFF=Total Allowable Level of Foreign Fishing; Initial Optimum Yield = DAH & TALFF or max optimum yield.
- (2) These are the maximum OYs as stated in the FMP; TALFF is for by catch purposes.
- (3) DAH includes 14,000 metric tons for recreational catch.

N/A:--Not Applicable.

Source:--NMFS, Office of Conservation and Management, F/CM and Office of Trade and Industry Service, F/TS2.



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UNITED STATES DEPARTMENT OF COMMERCE

14th and E Streets, NW Washington, D.C. 20230

<u>Mail</u> <u>routinq</u> <u>code</u>		<u>Telephone</u> number
	Secretary of Commerce Ronald H. Brown	202-482-2112
A	Under Secretary for Oceans and Atmoshpere D. James Baker	202-482-3436
	NATIONAL MARINE FISHERIES SERVICE	
	1335 East-West Highway (Silver Spring Metro Center #1) Silver Spring, MD 20910-3226	
F	Assistant Administrator for Fisheries Rolland A. Schmitten	301-713-2239
Fx1	Deputy Assistant Administrator for Fisheries Nancy Foster	301-713-2239
Fx2	Program Management Officer	301-713-2239
Fx3	Senior Scientist for Fisheries Michael P. Sissenwine	301-713-2239
F/MS	Management Services Office James H. Czerwonky	301-713-2245
F/BP	Budget and Planning Office John E. Oliver, Jr.	301-713-2250
F/PC	Policy and Coordination Office	301-713-2253
F/EN	Office of Enforcement	301-427-2300
F/EN1	Headquarters Operations Division	301-427-2300
F/CM	Office of Fisheries Conservation and Management Richard H. Schaefer	301-713-2334
F/CM1	Operations Support and Analysis Division	301-713-2339
F/CM2	Plans and Regulations Division	301-713-2343
F/CM3	Recreational and Interjurisdictional Fisheries Division	301-713-2347
F/CM4	Highly Migratory Species Management Division	301-713-2347
F/HP	Office of Habitat Protection Charles Karnella	301-713-2325
F/HP1	Habitat Policy and Management Division	301-713-2325
F/HP2	Conservation Science Division	301-713-2325
F/HP3	Chesapeake Bay Program Office	410-267-5661
F/HP4	Anadromous Fish Habitat Division	301-713-2325
F/RE	Office of Research and Environmental Information Richard B. Roe	301-713-2367
F/RE1	Fisheries Statistics Division	301-713-2328
F/RE2	Data Management Division	301-713-2372
F/RE3	Prediction, Analysis and Monitoring Division	301-713-2363

(Continued)

NATIONAL MARINE FISHERIES SERVICE Silver Spring, MD 20910-3226

<u>Mail</u>		
<u>routing</u> <u>code</u>		<u>Telephone</u> number
F/PR	Office of Protected Resources William W. Fox, Jr.	301-713-2332
F/PR1	Permits and Documentation Division	301-713-2289
F/PR2	Marine Mammal Division	301-713-2322
F/PR5	Habitat Research and Restoration Division	301-713-0174
F/PR8	Endangered Species Division	301-713-2319
F/TS	Office of Trade and Industry Services Samuel W. McKeen	301-713-2351
F/TS1	Financial Services Division	301-713-2390
F/TS2	Trade Services Division	301-713-2379
F/TS3	Utilization Research and Services Division	301-713-2358
F/TS4	Inspection Service Division	301-713-2355
F/IA	Office of International Affairs Henry R. Beasley	301-713-2272
F/IA1	Organizations and Agreements Division	301-713-2276
F/IA2	International Science, Development and Polar Affairs Division	301-713-2288
LA11	Office of Congressional Affairs - Fisheries Alan Risenhoover	301-713-2263
PAF	Office of Public Affairs - Fisheries Brian Gorman / Scott Smullen	301-713-2370
GCF	Office of General Counsel - Fisheries Margaret Hayes	301-713-2231

REFERRAL DIRECTORY - SILVER SPRING, MD OFFICE

FOREIGN FEES AND PERMITS--301-713-2339

Joint Ventures
Regulations:
Foreign Fishing
U.S. Nationals Fishing in Russian EZ

FINANCIAL SERVICES--301-713-2390

Compensation for loss of gear Construction, vessels (Tax Deferral Program) Insurance - vessel seizure by foreign governments Loans and loan guarantees

FISHERY MANAGEMENT OPERATIONS -- 301-713-2343

Artifical reefs Fishery management plans Fisheries regulations State grants

INDUSTRY SERVICES -- 301-713-2351

Consumer education and marketing Exports/Imports licenses Saltonstall-Kennedy (S-K) grants Tariffs
Trade issues

INTERNATIONAL FISHERIES--301-713-2272

Allocation (foreign fishing catches) Foreign fisheries (general)

LAW ENFORCEMENT AND FINES--301-427-2300

PROTECTED SPECIES -- 301-713-2332

Lacey Act (general information)
Marine Mammal Protection Act (general)
Permits and regulations

RESOURCES INVESTIGATIONS--301-713-2367

Acid rain and pollution Aquaculture information Diseases of fish Ecology and fish recruitment Fishing methods Resource abundance

STATISTICAL DATA SERVICES -- 301-713-2328

Commercial fisheries - landings and value Imports and exports
Joint ventures
Market news reports (general)
Operating units (fishermen and vessels)
Processed fishery products
Recreational fisheries

UTILIZATION RESEARCH--301-713-2358

Botulism and ciguatera poisoning Nutrition and quality of fishery products Safety and product standards Seafood inspection and identity

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

MAIL ROUTING CODE		TELEPHONE NUMBER	LOCATION
F/NER	Northeast Region One Blackburn Drive Gloucester, MA 01930	508-281-9300	Gloucester, MA
F/NEC3	Northeast Fisheries Science Center 166 Water St. Woods Hole, MA 02543	508-548-5123	Woods Hole, MA
	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-548-5123	Woods Hole, MA
	Narragansett Laboratory 28 Tarzell Drive Narragansett, RI 02882	401-782-3200	Narragansett, RI
	Milford Laboratory Milford, CT 06460	203-878-2459	Milford, CT
	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	908-872-3000	Highlands, NJ
	Oxford Laboratory 609 S. Morris St. Oxford, MD 21654	410-226-5193	Oxford, MD
	Gloucester Laboratory Emerson Ave. Gloucester, MA 01930	508-281-9278	Gloucester, MA
F/NESC3	National Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550	Washington, DC
F/SER	Southeast Region 9721 Executive Center Drive St. Petersburg, FL 33702	813-893-3141	St. Petersburg, FL
F/SEFSC	Southeast Fisheries Science Center, 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 1207 Pascagula, MS 39567	601-762-4591	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	904-234-6541	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500	Galveston, TX
		(Continued)	

NATIONAL MARINE FISHERIES SERVICE REGIONAL FACILITIES

<u>MAIL</u> ROUTING CODE		TELEPHONE NUMBER	<u>LOCATION</u>
F/SEC8	Charleston Laboratory 217 Fort Johnson Rd. Charleston, SC 29412	803-762-1200	Charleston, SC
F/SEC9	Beaufort Laboratory 101 Pivers Island Beaufort, NC 28516	919-728-3595 ·	Beaufort, NC
F/NWR	Northwest Region 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115	206-526-6150	Seattle, WA
F/NWC	Northwest Fisheries Science Center 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200	Seattle, WA
F/SW	Southwest Region 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802	310-980-4000	Long Beach, CA
F/SWFSC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	619-546-7000	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812	808-943-1221	Honolulu, HI
F/SWC3	Tiburon Laboratory 3150 Paradise Dr. Tiburon, CA 94920	415-435-3149	Tiburon, CA
F/SWC4	Pacific Fisheries Environmental Group P.O. Box 831 Monterey, CA 93942	408-656-3311	Monterey, CA
F/AKR	Alaska Region 709 West 9th Street, Room 453 P.O. Box 21668 Juneau, AK 99802	907-586-7221	Juneau, AK
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E., Bldg. 4 BIN C15700 Seattle, WA 98115	206-526-4000	Seattle, WA
	Kodiak Investigations P.O. Box 1638 Kodiak, AK 99615	907-487-4961	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000	Auke Bay, AK

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

<u>Location</u>	<u>Telephone</u> number	
Gloucester, MA	508-281-9300	Northeast Region, One Blackburn Drive Gloucester, MA 01930
Woods Hole, MA	508-548-5123	Northeast Fisheries Science Center Woods Hole, MA 02543
Woods Hole, MA	508-548-5123	Woods Hole Laboratory Woods Hole, MA 02543
Narragansett, RI	401-782-3200	Narragansett Laboratory, 28 Tarzell Drive Narragansett, RI 02882
Milford, CT	203-878-2459	Milford Laboratory Milford, CT 06460
Highlands, NJ	908-872-3000	Sandy Hook Laboratory, Building 74, McGruder Rd. Highlands, NJ 07732
Oxford, MD	410-226-5193	Oxford Laboratory, 609 S. Morris St. Oxford, MD 21654
Gloucester, MA	508-281-9278	Gloucester Laboratory, Emerson Ave. Gloucester, MA 01930
Washington, DC	202-357-2550	National Systematics Laboratory, MRC153 10th and Constitution Ave., N.W., Wash., DC 20560
St. Petersburg, FL	813-893-3141	Southeast Region, 9721 Executive Center Drive St. Petersburg, FL 33702
Miami, FL	305-361-4284	Southeast Fisheries Science Center, 75 Virginia Beach Dr. Miami, FL 33149
Miami, FL	305-361-4225	Miami Laboratory, 75 Virginia Beach Dr. Miami, FL 33149
Pascagoula, MS	601-762-4591	Mississippi Laboratories, 3209 Frederick St. P.O. Drawer 1207 Pascagula, MS 39567
Panama City, FL	904-234-6541	Panama City Laboratory, 3500 Delwood Beach Rd. Panama City, FL 32408
Galveston, TX	409-766-3500	Galveston Laboratory, 4700 Avenue U Galveston, TX 77551

(Continued)

NATIONAL MARINE FISHERIES SERVICE REGIONAL FACILITIES

	<u>Telephone</u>	
<u>Location</u>	number	
Charleston, SC	803-762-1200	Charleston Laboratory, 217 Fort Johnson Rd. Charleston, SC 29412
Beaufort, NC	919-728-3595	Beaufort Laboratory, Pivers Island Beaufort, NC 28516
Seattle, WA	206-526-6150	Northwest Region, 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115
Seattle, WA	206-553-1872	Northwest Fisheries Science Center 2725 Montlake Boulevard, East Seattle, WA 98112
Long Beach, CA	310-980-4001	Southwest Region, 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802
La Jolla, CA	619-546-7000	Southwest Fisheries Science Center 8604 La Jolla Shores Dr., P.O. Box 271 La Jolla, CA 92038
Honolulu, HI	808-943-1221	Honolulu Laboratory, 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812
Tiburon, CA	415-435-3149	Tiburon Laboratory, 3150 Paradise Dr. Tiburon, CA 94920
Monterey, CA	408-656-3311	Pacific Fisheries Environmental Group P.O. Box 831 Monterey, CA 93942
Juneau, AK	907-586-7221	NMFS, Alaska Region, Federal Building, 4th Floor, 709 West 9th Street, P.O. Box 21668, Juneau, AK 99802
Seattle, WA	206-526-4000	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700, Bldg. 4 Seattle, WA 98115
Kodiak, AK	907-487-4961	Kodiak Investigations, P.O. Box 1638 Kodiak, AK 99615
Auke Bay, AK	907-789-6000	Auke Bay Laboratory, 11305 Glacier Highway Auke Bay, AK 99801

NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERY STATISTICS OFFICES

City	<u>Telephone</u> <u>number</u>	Name and address
		NORTHEAST REGION
NEW ENGLAND		
Portland	207-780-3322	Robert C. Morrill or Scott McNamara, Marine Trade Center, Suite 212, Two Portland Fish Pier
Rockland	207-594-5969	Portland, ME 04101 Peter S. Marckoon, Federal Bldg., 21 Limerock St., Rm. 207, P.O. Box 708, Rockland, ME 04841
Boston	617-223-8012	Louis O'Donnel, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
Boston	617-223-8015	Paul Sheahan, 408 Atlantic Ave., Rm. 141 Boston, MA 02210
Gloucester	508-281-9304	Vito P. Giacalone, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452	Dennis E. Main, U.S. Custom House, 37 N Second St., New Bedford, MA 02740
New Bedford Chatham	508-994-9200 508-945-5961	Paul O. Swain, Address same as above Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633
(1)Woods Hole	508-548-5123	Vacant, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Newport	401-847-3115	Lori Rinkel, Post Office Bldg., Thames St.,
Pt. Judith	401-783-7797	Newport, RI 02840 Karen Greene, 310 Great Island Rd., Rm. 203, P.O. Box 547, Pt. Judith, RI 02882
MIDDLE ATLANTIC		
New York	212-620-3505	Russell Meredith, Economics Data Office, Room 731 201 Varick Street, New York, NY 10014
East Hampton	516-324-5969	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	516-475-6988	Fred C. Blossom, 50 Maple Ave., Social Security Bldg., P.O. Box 606, Patchoque, L.I., NY 11772
Toms River	908-349-3533	Eugene A. LoVerde, 26 Main St., P.O. Box 143, Toms River, NJ 08754
Cape May	609-884-2113	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
CHESAPEAKE		
Greenbackville	804-824-4725	Vacant, Biological Lab., Franklin City, Greenbackville, VA 23356
Hampton	804-723-3369	Anthony Silvia, 1026 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669
SOUTH ATLANTIC		SOUTHEAST REGION
(1) Beaufort	919-728-4168	Kenneth C. Harris, Beaufort Laboratory, 101 Piver
Manteo	919-473-5929	Island Road, Beaufort, NC 28516 Glenwood P. Montgomery, Marine Resource Center,
Charleston	803-762-1200	P.O. Box 967, Manteo, NC 27954 John C. DeVane, Jr., 217 Ft. Johnson Rd.,
Brunswick	912-265-7080	P.O. Box 12607, James Island, SC 29412 Richard F. Dumas, Federal Bldg., 801 Gloucester St.,
New Smyrna Beach	904-427-6562	Rm. 302, Brunswick, GA 31520 Claudia Dennis, 612 No. Ridge Wood Ave, Suite F,
(1)Miami	305-361-4468	P.O. Box 2025, Edgewater, FL 32132 Guy S. Davenport, 75 Virginia Beach Dr.,
Tequesta	407-575-4461	Miami, FL 33149 Howard C. Schaefer, 19100 S.E. Federal Highway Tequesta, FL 33469

(Continued)

NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERY STATISTICS OFFICES

City	<u>Telephone</u> number	Name and address
<u>GULF</u>		
Key West	305-294-1921	Edward J. Little, Jr., Post Office & Custom House
Fort Myers	813-334-4364	Bldg., P.O. Box 269, Key West, FL 33040 Tom Herbert, 2000 Main St., Suite 409
St. Petersburg	813-893-3151	Fort Myers, FL 33901 Guy Pizutti, 9721 Executive Center Drive,
Panama City	904-234-6541	St. Petersburg, FL 33702 Deborah Fable, 3500 Delwood Beach Rd.,
Bayou La Batre	205-824-4149	Panama City, FL 32407 Horace M. Flowers, D&H Furniture Bldg., Second Floor 93 S. Wintzell Ave., P.O. Box 591, Bayou La Batre, AL 36509
Pascagoula	601-762-4591	Rene J. Labadens, Jr., 3209 Frederic St., Pascagoula Lab., P.O. Box Drawer 1207, Pascagoula, MS 39567
Cameron	318-542-4758	Karen Swank, South Cameron Medical Center, Route 1, Box 20-F, Creole, LA 70632
Golden Meadow	504-475-7072	Gary J. Rousse, 1614 So. Bayou Dr., Rm. 211, P.O. Box 623, Golden Meadow, LA 70357
Houma	504-872-3321	Kathleen M. Hebert, Post Office Bldg., 425 Lafayette St., Rm. 128, Houma, LA 70360
New Iberia	318-365-1558	Linda F. Picou, 705-A West Admiral Doyle Dr. New Iberia, LA 70560
(1)New Orleans	504-589-6153	Leryes "Lee" Usie, One Canal Place, Suite 2340, 365 Canal Street, New Orleans, LA 70130
Rockport	512-729-0189	Thomas N. Scott, Roy W. Spears, Pine Tree Office Bldg., Suite 110, P.O. Box 2259, Rockport, TX 78382
Brownsville/ Port Isabel	210-548-2516	Kit Doncaster or Edie Lopez, HC 70 Box 15, Brownville, TX 78521
Freeport	409-233-4551	Thomas R. Mauermann, Texas Gulf Bank, Suite 213 P.O. Box 2533, Freeport, TX 77541
(1)Galveston	409-766-3705	Margot Hightower or W. Keith Roberts 4700 Avenue U, Bldg. 308, Galveston, TX 77551
Port Arthur	409-727-2271	Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd., Port Arthur, TX 77640
		SOUTHWEST REGION
(1) Long Boach CA	310-980-4033	Patricia J. Donley, 501 West Ocean Boulevard,
(1)Long Beach, CA or Honolulu, HI	210-300-4023	P.O. Box 32469, Long Beach, CA 90832
		NORTHWEST REGION
(1)Seattle	206-526-6128	John K. Bishop, 7600 Sand Point Way, N.E., Bldg., 1, BIN C15700, Seattle, WA 98115
		ALASKA REGION
(1)Juneau	907-586-7221	Patsy Bearden, Federal Building, 4th Floor, 709 West 9th Street, P.O. Box 21668 Juneau, AK 99802

⁽¹⁾ Regional or area headquarters for statistics offices.

LIBRARY INFORMATION

The NOAA Library and Information Network Catalog (NOAALINC) is a CD-ROM microcomputer-based library catalog of more than one million books, technical reports, serials and microforms. The collection strengths include aquatic science, marine ecology, microbiology, oceanography, meteorology, climatology, chemistry, geology, remote sensing, hazardous wastes, pesticides, toxicology, pollution, and law.

NOAALINC implements a keyword searching strategy to locate information by author, title, subject, and call number. Records can be displayed using several display formats; brief, labeled, and full. Each bibliographic record indicates which library holds the item. NOAA personnel may borrow items by contacting the nearest NOAA Library or the NOAA

Central Library at (301) 713-2600 or NOAA IBRARY (OMNET). The general public should contact their local library.

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Other library information is available from NOAA's Library, 1315 East-West Hwy., 2nd Floor, Silver Spring, MD 20910. Telephone: 301-713-2600

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

STATISTICAL REPORTS

003-020-00163-7 Fisheries of the United States, 1992 \$8.50

003-020-00164-5 Fisheries of the United States, 1993 \$9.00

MISCELLANEOUS REPORTS

003-009-00163-7 United States Industrial Outlook 1993: Business Forecases for 350 Industries . . .\$37.00 S/N 703-023-00000-2

Fishery Bulletin (Quarterly): Publishes Original Research Papers, etc. ...Domestic: \$12.00 copy Foreign: \$15.00 copy

MARINE LIFE POSTERS

(printed on washable non-glare plasticized paper)

003-020-00055-0 Marine Fishes of the California Current and adjacent waters

. . .\$5.50

003-020-00069-0 Fishes of the Great Lakes

. . .\$8.00

To purchase publications listed above (Advance Payment Required), call or write:

Superintendent of Documents U.S. Government Printing Office Washington, DC 20202 202-783-3238

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE AND NATIONAL TECHNICAL INFORMATION SERVICE (NTIS) U.S. DEPARTMENT OF COMMERCE

SCIENTIFIC PUBLICATIONS:

Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/NWR1), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.
Telephone: 206-526-6107

CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the--commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service Fisheries Statistics Division (F/RE1) 1335 East-West Highway Silver Spring, MD 20910--3226 Telephone: 301-713-2328

Marine recreational fishing publications are released annually. If you wish a copy of the following publications, check the designated space () and return to the Office shown above.

- () Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1987-1989, C.F.S. No. 8904
- Marine Recreational Fishery Statistics Survey, Pacific Coast, 1986, C.F.S. No. 8393
- () Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1986, C.F.S. No. 8392

- () Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1983-1984, C.F.S. No. 8326
- () Marine Recreational Fishery Statistics Survey, Pacific Coast, 1983-1984, C.F.S. No. 8325
- () Marine Recreational Fishery Statistics Survey, Pacific Coast, 1981-1982, C.F.S. No. 8323
- () Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979 (Revised)-1980, C.F.S. No. 8322
- () Marine Recreational Fishery Statistics Survey, Pacific Coast, 1979-1980, C.F.S. No. 8321

The bulletins shown below cover freezings and holdings, the production of various processed products, and the U.S. foreign trade in fishery products. The following are available annually:

- () FF Frozen Fishery Products
- () MF Processed Fishery Products
- () Imports and Exports of Fishery Products

The following publication is only available quarterly.

() Fish Meal and Oil

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on **page 110**) or the originating office (code follows in parentheses). Copies are available only as long as supply lasts.

- () Endangered Species Act, Biennial Report, Status of Recovery Program, FY 1989-1991. (F/PR)
- () Fishery Management Plan for Sharks of the Atlantic Ocean. (F/CM)
- () Magnuson Fishery Conservation and Management Act, As Amended through November 28, 1990.
 (F/CM)
- () Marine Mammal Protection Act, Annual Report. 1988-1989. (F/PR)
- () Marine Mammal Protection Act, Annual Report. 1990-1991. (F/PR)
- Our Living Oceans The First Annual Report on the Status of U.S. Living Marine Resources. (F/RE)
- () Our Living Oceans Report on The Status of U.S. Living Marine Resources, 1992 Data. (F/RE)
- () Our Living Oceans Report on The Status of U.S. Living Marine Resources, 1993 Data. (F/RE)
- () Strategic Plan of the National Marine Fisheries Service. (F)
- () The Saltonstall-Kennedy Grant Program: Fisheries Research and Development. (F/TS)
- () The Saltonstall-Kennedy Grant Program: Fisheries Research and Development -- Annotated Bibliography. (F/TS)
- () USDC Approved List of Fish Establishments and Products -- Semi-Annual Report. (National Seafood Inspection Laboratory, Pascagoula, MS.)

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Recovery Plan for the Kemp's Ridley Sea Turtle (Lepidochelys kempil). Prepared by the Kemp's Ridley Recovery Team for the U.S. Fish and Wildlife Service and NMFS, 1992. Washington, DC. (F/PR).

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Recovery Plan for the Northern Right Whale (Eubalaena glacialis). Prepared by the Right Whale Recovery Team for the National Marine Fisheries Service, 1991. 1992. Silver Spring, Maryland. 86 p. (F/PR)

Recovery Plan for U.S. Population of Atlantic Green Turtle. National Marine Fisheries Service, and Fish and Wildlife Service. 1991. Washington, D.C. (F/PR)

Recovery Plan for U.S. Population of Loggerhead Turtle (Caretta caretta). Prepared by the Loggerhead/Green Turtle Recovery Team for the U.S. Fish and Wildlife Service and NMFS. 1992. Washington, DC. (F/PR).

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Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS (see page 110).

Year	Accession No.	Year	Accession No.
1966	COM-75-10662	1974	COM-75-10862
1967	COM-75-10663	1975	PB-253966
1968	COM-75-10664	1976	PB-268662
1969	COM-75-10665	1977	PB-282741
1970	COM-71-50081	1978	PB-297083
1971	COM-75-10666	1979	PB-80-201593
1972	COM-73-50644	1980	PB-81-241648
1973	COM-74-50546	1981	PB-82-215542

1982	PB-83-216473	1988	PB-89-216485
1983	PB-84-195148	1989	PB-91-129320
1984	PB-86-144953	1990	PB-92-174523/AS
1985	PB-87-143145	1991	PB-93-204536/AS
1986	PB-88-164132	1992	PB-94-156387
1987	PB-88-215173		

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession No.	Year	Accession No.
1939	COM-75-11265	1959	COM-75-11062
1940	COM-75-11266	1960	COM-75-11063
1941	COM-75-11267	1961	COM-75-11064
1942	COM-75-11268	1962	COM-75-11065
1943	COM-75-11269	1963	COM-75-11066
1944	COM-75-11270	1964	COM-75-11067
1945	COM-75-11271	1965	COM-75-11068
1946	COM-75-11272	1966	PB-246429
1947	COM-75-11273	1967	PB-246430
1948	COM-75-11274	1968	COM-72-50249
1949	COM-75-11275	1969	COM-75-10887
1950	COM-75-11056	1970	COM-75-10643
1951	COM-75-11053	1971	COM-74-51227
1952	COM-75-11054	1972	COM-75-11430
1953	COM-75-11055	1973	PB-262058
1954	COM-75-11057	1974	PB-277796
1955	COM-75-11058	1975	PB-300625
1956	COM-75-11059	1976	PB-81-163438
1957	COM-75-11060	1977	PB-84-192038
1958	COM-75-11061		

HISTORICAL REPORTS

Historical Catch Statistics is a series of publications reporting catch of certain species in the United States for historical purposes. The following reports are available through NTIS (see page 104).

Atlantic and Gulf Coast States, 1879 - 1989. Current Fisheries Statistics No. 9010 - Historical Series Nos. 5-9 Revised. Report covers total landings for major species, by state and by region. (NTIS No. PB-93-174266).

Atlantic and Gulf Coast States, 1950 - 1991. Current Fisheries Statistics No. 9210 - Historical Series No. 10-Revised. Report covers landings and value of major species, by Region. (NTIS No. PB-93-174274).

IMPORTS AND EXPORTS of Fishery Products, Annual Summary

1982	PB-92-218635	1987	PB-92-228055
1983	PB-92-218643	1988	PB-92-222272
1984	PB-92-214972	1989	PB-92-22264
1985	PB-92-22280	1990	PB-92-22256
1986	PB-92-228196	1991	PB-92-221803

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1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Fishina:

Northeastern United States, 1973-74, COM-75-10655. Southeastern United States, 1974, PB-273160.

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1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701
1987-1989	PB-92-174820

Pacific Coast:

1001 1000	DD 00 10000E/AC
1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS

PROCESSED FISHERY PRODUCTS -- Annual Summary

1979	PB-89-215248/AS	1984	PB-89-215297/AS
1980	PB-89-215255/AS	1985	PB-89-215305/AS
1981	PB-89-215263/AS	1986	PB-89-215313/AS
1982	PB-89-215289/AS	1987	PB-92-172956
1983	PB-89-215271/AS	1988	PB-92-204528/AS

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Maine: 1946-76, PB-271-296; 1977-79, PB-128258. Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-

143182.

Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-

157158.

New York: 1954-76, PB-275449; 1977-79, PB-81-134546. New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048. Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003. Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960. North Carolina: 1955-76, PB-288928; 1977-79, PB-82-

151978.

South Carolina: 1957-76, PB-289405; 1977-79, PB-81-

163198.

Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.

Florida: 1950-76, PB-292068.

Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071. Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079. Louisiana: 1957-77, PB-300583; 1978, PB-82-168063. Texas: 1949-77, PB-300603; 1978-79, PB-82-169004. Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.

Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

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In 1993, the Office of International Affairs, NMFS, prepared a six-volume study which analyzes past, present, and future trends in the world's distantwater fishing fleets. The subjects covered include catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures. These studies can be purchased through the National Technical Information Service (NTIS) using the following titles and reference numbers:

World fishing Fleets: An analysis of Distance-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/GBA).

Volume I: Executive Summary. Overview of world distance-water fishing fleets and summarizes regional trends, 54 p. (NTIS No. PB-94-140829/GBA).

Volume II: Africa. Compilation of information by U.S. Embassies on fleet operations in selected African countries. 51 p. (NTIS No. PB-94-140837/GBA).

Volume III: Asia. Overview of Asian fleets and individual studies of China, Japan, Republic of Korea, and Taiwan fleets. 144 p. (NTIS No. PB-94-140845/GBA).

Volume IV: Latin America. Overview of Caribbean Central America, South America, and individual reports on the Latin American fleets engaged in distant-water fisheries. 513 p. (NTIS No. PB-94-140852/GBA).

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Available Foreign Fishery Reports, 1984-1992. Covering 59 Countries and Regions. (F/IA2).

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NATIONAL MARINE FISHERIES SERVICE BULLETIN BOARDS

Several National Marine Fisheries Service offices provide public access to electronic bulletin board services operating 24-hours a day to furnish the fishing industry with current information. Listed below are necessary facts needed to access these bulletin boards via a personal computer.

Alaska Region:

The Alaska Regional service is available by dialing 907-586-7259 at no parity, 8 data bits, 1 stop bit, full duplex. The bulletin board operates on a 80486 standalone PC with 4 MB of memory and four 14,400 baud modems. A menu-driven system directs callers to areas and manages viewing of files, downloading, and in certain cases, uploading files. A message utility handles transfer of mail between users and to the

sysop. Information is organized in ANSI format into categories consisting of: news releases; regulations; current catch statistics; allocations / seasons / closure histories; PacFIN data; and miscellaneous information. Catch statistics are updated weekly, other files are added as needed. For additional information contact Tim Beede, 907-586-7228, at the Alaska Regional Office.

Northwest Region:

The Northwest Regional Office service is available by dialing 206-526-6405 at 2400 baud, no parity, 8 data bits, 1 stop bit, full duplex. (The region plans to upgrade baud rate to 28.8 by January 1995.) Information is presented through a system of menus and displayed on-line. A variety of reports are included: current groundfish and salmon regulations;

current entry program, limited entry groundfish permits; foreign trade news and data files; HACCP FDA information; Saltonstall / Kennedy Program; view your account; testing system; NMFS news and phone numbers; list of files or transfers; and miscellaneous information. For additional information contact John Bishop, 206-526-6119, at the Northwest Regional Office.

Southwest Region:

The Southwest Regional Office service is available by dialing 310-980-4059 at 2400 baud, no parity, 8 data bits, 1 stop bit, full duplex. Information is presented in the form of bulletins organized through a system of menus and displayed on-line. Announcements include Federal Register notices of seasons, trip limits, and quotas for groundfish, salmon, and coastal pelagic fisheries. Trade and industry reports are available for fishery product imports into

Southern California / Arizona / Hawaii, canned tuna industry updates and status of canned tuna import quotas, catch reports and the status of quotas or allocations for various California fisheries, a calendar of public meetings and events, Pacific Council News and information concerning protected species and marine recreational fisheries. For additional information contact Dan Viele, 310-980-4039, at the Southwest Regional Office.

SERVICE

TRADE AND INDUSTRY SERVICES

The National Marine Fisheries Service conducts activities designed to improve the competitiveness of the U.S. fishing industry in domestic and world markets and to enhance the safety and quality of U.S. seafood products. Programs include: (1) identification of U.S. industry trade issues and problems, and advising U.S. agencies on fishery matters affecting trade; (2) financial assistance in the form of loan guarantees, insurance programs, a capital construction fund, and research and development grants; (3) administration of fishery product inspection and grading, and product standard programs; (4) research and development on product safety, quality, and use; and (5) advice to the U.S. Department of Agriculture on the use of its Surplus Commodity Program and export financing programs for fishery products.

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SOUTHWEST REGION

Chief Fisheries Management Division 501 W. Ocean Blvd., Suite 4200 Long Beach, CA 90802 (310) 980-4030 FAX: (310) 980-4047

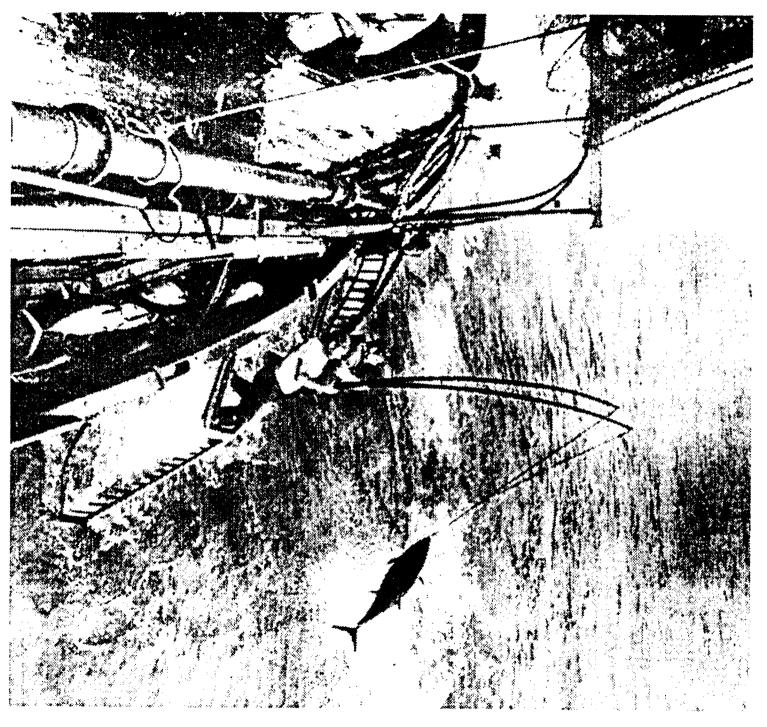
International Trade Specialist Development Section Address same as above (310) 980-4038

ALASKA REGION

Fisheries Development Specialist International Affairs Officer 709 West 9th St., 4th Floor P.O. Box 21668 Juneau, AK 99802 (907) 586-7224



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SERVICES

SEA GRANT MARINE ADVISORY SERVICE

The Office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Marine Advisory Service offers a broad range of information to recreational and commercial fishermen, fish processors, and others concerning the Nation's fisheries. The following program leaders can provide information on Sea Grant Activities:

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SERVICES

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National Sea Grant Depository

(Clearing house for all Sea Grant Publications)

Pell Library University of Rhode Island Bay Campus Narragansett, RI 02882 (401) 792-6114 ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish or freshwater. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

<u>BOAT, OTHER</u>. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantall (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

<u>CANNED FISHERY PRODUCTS</u>. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables.

or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

<u>COMMERCIAL FISHERMAN</u>. An individual who derives income from catching and selling living resources taken from inland or marine waters.

consumption of EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in instant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (Immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

<u>CUSTOMS TERRITORY.</u> Unless otherwise noted, the foreign trade information presented is based on Bureau of the Census data for the Customs territory of the United States. The territory includes the 50 States, District of Columbia, Puerto Rico, and the U.S. Virgin Islands.

<u>DEFLATED VALUE</u>. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

<u>EDIBLE WEIGHT</u>. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EUROPEAN UNION. Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom. This was formerly known as European Economic Community (EEC).

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded. etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

<u>FISH BLOCKS</u>. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

<u>FISH FILLETS</u>. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

<u>FISH MEAL</u>. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

<u>FISH OIL</u>. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROSS REGISTERED TONNAGE (GRT). The gross registered tonnage of a vessel is the internal cubic capacity of all space in and on the vessel that is permanently enclosed, with the exception of certain permissible exemptions. GRT is expressed in tons of 100 cubic feet.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottomfishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species—Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

<u>IMPORT WEIGHT</u>. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWPs). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

<u>JOINT VENTURE</u>. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S., fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended. The Magnuson Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery

conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

<u>MOTORBOAT</u>. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other."

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference

MFCMA.

to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

<u>PACKAGED FISH</u>. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

<u>PART-TIME COMMERCIAL FISHERMAN</u>. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

<u>PER CAPITA USE</u>. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

<u>SURIMI</u>. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA (Magnuson Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

<u>VESSEL</u>. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

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NATIONAL SEAFOOD INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a feefor-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products.

USERS OF INSPECTION SERVICES.

The users of the voluntary seafood inspection service include vessel owners, processors, distributors, retailers, food service brokers. operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The military requires USDC inspected products be purchased for its troop feeding program. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food The USDC feeding programs. APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS, published bi-annually, provides a listing of products and participants who contract with USDC. Currently fourteen states and four commodity groups of the U.S. Department of Agriculture maintain agreements with the USDC for the cross-licensing of food inspectors to assist in the inspection and certification of fishery products.

USDC INSPECTION MARKS. The official marks authorized for use on products in the USDC inspection program are found in the Code of Federal Regulations, Title 50. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the

Inspection Services Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled



"US GRADE A MARK." The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.



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condition and other factors as requested. The ACCEPTED PER SPECIFICATIONS mark identifies products which were officially sampled and inspected to conform to approved specifications or criteria.

USDC HACCP-BASED SERVICE. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. industry NMFS certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Costs are consistent with current program rates. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence.

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